

SRN ADARSH COLLEGE CHAMARAJPET BENGALURU-18

DEPARTMENT OF BCA

AFFILIATED TO BENGALURU CITY UNIVERSITY(BCU)

BCA II YEAR SYLLABUS:2021-2022

Semester	Part	PaperCode	Title of Paper	Hours/Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
III	Part 1	BCA30IT	Indian Language	4	30	70	100	2	16
		BCA302T	English	4	30	70	100	2	
	Part 2	BCA303T	Object oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	OperatingSystem	5	50	100	150	3	
		BCA303P	OOPS Using C++Lab	3	15	35	50	1	
		BCA30P	Tally Lab	3	15	35	50	1	
	Part 3		Foundation Course	3	30	70	100	2	
			CC&EC		50		50	1	
IV	Part 1	BCA40IT	Indian Language	4	30	70	100	2	16
		BCA402T	English	4	30	70	100	2	
	Part 2	BCA403T	VB.NET Programming	4	30	70	100	2	
		BCA404T	Unix and Shell Programming	4	30	70	100	2	
		BCA405T	Software Engineering	5	50	100	150	3	
		BCA403P	VB.NET Lab	3	15	35	50	1	
		BCA404P	Unix Lab	3	15	35	50	1	
	Part 3		Skill Development	3	30	70	100	2	
		CC&EC		50		50	1		

BCA301T: INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA302T: ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA303T: OBJECT ORIENTED PROGRAMMING USING C++

Total Teaching Hours: 52

Unit-I

Introduction :Procedure Languages , definition of OOP, Basic concept of OOP, Object Class, Data Abstraction, Data Encapsulation, Data Hiding member functions , Reusability , Inheritance, Creating new Data Types, Polymorphism, Overloading , Dynamic binding and Message passing. C++ Features: The iostream class, C++ Comments, C++ Keywords, Variable declaration, The Const Qualifier. The End!, Set Waste precision, Manipulators , The scope resolution operator, The new & delete Operations. Functions: Simple Functions, Function declaration, calling the function, function definition, Passing argument to, returning value from function, passing constants, Variables, pass by value , passing structure variables, pass by reference , Default arguments, return statements, return by reference, overloaded functions; Different number of arguments, Different Kinds of argument, inline function.

Unit-II

12 Hours

Objects & Classes: Classes & Objects, Class Declaration, Class member; Data Constructors, Destructors, Member functions, Class member visibility, private, public and protected. The scope of the class objects constructions, Default Constructor. Constructor with argument, constructor with default arguments, Dynamic constructor, copy constructor, Overloaded constructor, Objects as arguments returning objects from functions, class conversion, manipulation private Data members, Destructors classes, object & memory, arrays as class member data: Array of objects, string as class member.

Unit-III

12 Hours

Operator Overloading : Overloading unary operator: Operator Keyword, Operator arguments, Operator return value, Nameless temporary objects, limitations of increment operator, overloading binary operator, arithmetic operators, comparison operator, arithmetic assignment operator, data conversion; conversion between objects of different classes. Inheritance : Derived Class & Base Class: Specifying the Derived class accessing Base class members, the protected access specifier, Derived class constructor, Overriding member functions, public and private inheritance; Access Combinations , Classes & Structures, Access Specifiers, Level of inheritance; Multilevel inheritance, Hybrid inheritance, Multiple inheritance; member functions in multiple inheritance , constructors in multiple inheritance , Containership; Classes, within classes, Inheritance & Program development.

Unit-IV

12 Hours

Virtual functions: Normal member function accessed with pointers, Virtual member functions accessed with pointers, Dynamic binding, pure virtual functions, Friend function; Friends for functional notation, friend classes, the pointer; Accessing Member Data with this, using this for returning values. Templates & Exception Handling: Introduction, Templates, Class Templates, function templates, Member function templates, Template arguments, Exception Handling.

Unit-V

12 Hours

Streams: The Stream class Hierarchy, Stream classes Header file, string I/O: Writing strings, reading strings, character I/O, Detecting End-of-file. Object I/O; writing an object to disk, reading an object from disk, I/O with multiple objects; the fstream class, The open function, File Pointers; Specifying the position, Specifying the offset. The tellg Function, Disk I/O with Memory Functions; Closing Files, Error Handling, Command Line Arguments.

Text books:

1. Lafore Robert, "Object Oriented Programming in Turbo C++", Galgotia Publications, 2012.

Reference:

1. Lippman, "C++ Primer", 3rd Edition, Pearson Education, 2010.
2. E. Balaguruswamy: Object Oriented Programming with C++, Tata McGraw Hill Publications, 2011.
3. Farrell, "Object Oriented Programming Using C++", 1st Edition 2008, Cengage Learning India

BCA304T: ACCOUNTING AND FINANCIAL MANAGEMENT

Total Teaching Hours: 52

No of Hours/ Week: 04

Unit - I

12 Hours

Introduction: History and Development of Accounting - Meaning Objectives and functions of Accounting-Book-keeping V/s Accounting - Users of accounting data - systems of book-keeping and accounting - branches of accounting - advantages and limitations of accounting. Accounting Concepts and conventions: Meaning need and classification, Accounting standards - meaning, need and classification of Indian accounting standards. Accounting principles V/s Accounting standards.

Unit - II

10 Hours

Financial Accounting Process: Classification of accounting transaction and accounts, rules of debit and credit as per Double Entry System. Journalisation and Ledger position Preparation of different subsidiary books: Purchase Day Book Sales Day Book, Purchase Returns Day Books, Sales Returns Day Book, Cash Book. Bank Reconciliation Statement: Meaning, Need, Definition, preparation of BRS.

Unit- III

10 Hours

Accounting for bill of exchange: Meaning, Need, Definition, Partice to Bill of Exchange, Types of Bills. Accounts Procedure: Honour of the Bill, Dishonour of the Bill, Endorsement, Discounting, Renewal, Bills for collection, Retirement of the Bill, Accommodation Bills, Bill Receivable Book and Payable Book. Preparation of Trial Balance: Rectification of errors and journal Proper.

Unit-IV

10Hours

Preparation of Final accounts: Meaning, need and classification, Preparation of Manufacturing , Trading, Profit and loss account and Balance-Sheet of sale - traders and partnership firms.

Unit - V

10 Hours

Accounting Package like Tally

Text Book

1. S.Ramesh, B.S.Chandrashekar, a Text Book of Accountancy.

References

1. V.A.Patil and J.S.Korihalji, Book- Keeping and Accounting, (R. Chand and Co. Delhi).
2. R S.Singha], Principles of Accountancy, Nageen Prakash pvt.Ltd, Meerut.
3. B.S.Raman, Accountancy, (United Publishers, Mangalore)

BCA305T: OPERATING SYSTEMS

Total Teaching Hours: 65

No of Hours/ Week : 05

Unit - I

13 Hours

Introduction: Batch Systems, Concepts of Multiprogramming and Time Sharing, Parallel, Distributed and real time Systems, Operating System Structures, Components & Services, System calls, System programs, Virtual machines. Process Management: Process Concept, Process Scheduling, Co - Operating process, Threads, Inter process communication, CPU Scheduling Criteria, Scheduling algorithm, Multiple Processor Scheduling, Real time Scheduling, Algorithm evolution.

Unit - II

13 Hours

Process Synchronization and deadlocks: The Critical Section Problem, Synchronization hardware , Semaphores , Classical problems of synchronization, Critical regions, monitors, Dead Locks - system model , Characterization, Dead lock prevention, avoidance and detection, Recovery from dead lock, Combined approach to deadlock handling.

Unit-IV

13Hours

Memory Management: Logical and Physical address space, Swapping, Contiguous allocation, Paging, Segmentation, Segmentation with paging in Mastic s and Intel 386, Virtual memory-Demand paging and it's performance, Page replacement algorithms, Allocation of frames, thrashing, page size and other considerations. Demand Segmentation.

Unit-IV

13Hours

File management (Systems, Secondary Storage Structure): File Concepts, Access methods, Directory Structure, Protection and consistency, File system structure, Allocation methods, Free space management, Directory Implementation, Efficiency and Performance, Recovery. Disk Management (Structure, Disk Scheduling Methods): Disk Structure & Scheduling methods, Disk management, Swap - Space management.

Unit - V

13 Hours

Protection and Security: Goals of protection, Domain Protection, Access matrix, Security Problem, Authentication, One time password, program threats, System th.reads.

Case Study of Windows and Linux Operating System

BCA303P : C++ PROGRAMMING LAB

PART-A

1. Write a C++ Program to define a STUDENT class with USN, Name and Marks in 3 tests of subject. Declare an array of 10 STUDENT objects. Using appropriate functions, find the average of two better marks for each student. Print the USN, Name and average marks
2. Write a C++ Program to Deposit amount and withdraw options in bank transactions for saving and current account and display the total balance using friend functions.
3. Write a C++ Program to find the area of right angle, equilateral and scalene triangle using function overloading.
4. Write a C++ program to create a class called COMPLEX and implement the following overloading functions ADD that return a COMPLEX number.
 - i. ADD(a , s2) - where a is an integer (real part) and s2 is a complex number.
 - ii. ADD(s1, s2) - where s1 and s2 are complex numbers.
5. Write a C++ Program to compare two strings by overloading == operator.
6. Write a C++ Program to perform addition of two matrices by overloading + operator.
7. Write a C++ Program to create a class called STUDENT with data members USN, Name and Age. Using inheritance, create the class MARKS containing data members for 3 subjects, percentage and create another class called SPORTS having data members name of the sport, achievements. Enter the data for at least 5 students. Display student details, percentage and sport details for all the students separately.
8. Write a C++ Program to sort elements using bubble sort technique applying function templates.
9. Write a C++ Program to perform stack operations for Integers, Decimal, Characters using class templates.
10. Write a C++ Program to calculate area and perimeter of rectangle using concept of inheritance.
11. Write a C++ Program to calculate area and volume of various figures using function overriding.
12. Write a C++ Program to perform open, read and write operations on a file. Copy the contents of one file to other without losing the data in the destination file and count how many characters are there in the destination file.

PART-B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 8 Programs has to be prepared).

Note:

- a) The candidate has to write two the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs - 10 Marks

Execution of one program - 10 Marks

Formatting the Output - 05 Marks

Viva - 05 Marks

Record - 05 Marks

Total - 35 Marks

BCA304P: ACCOUNTING PACKAGE LAB

Tally Lab List

Part A

10 Programs

PART-B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 8 Programs has to be prepared).

Note:

- a) The candidate has to write two the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs - 10 Marks

Execution of one program - 10 Marks

Formatting the Output - 05 Marks

Viva - 05 Marks

Record - 05 Marks

Total - 35 Marks

SYLLABUS

IV SEMESTER

BCA401T: INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA402T: ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA403T: VISUAL PROGRAMMING.NET

Total Teaching Hours: 52

No of Hours/ Week: 04

UNIT 1: Introduction to .net framework -Features, Common Language Runtime (CLR), Framework Class Library(FCL). Common Language Specification (CLS), Common Type System (CTS), Intermediate Language (IL) and Just-In- Time (JIT) Compilation, Visual Studio.Net - IDE, Languages Supported, Components.

VB.Net Features, IDE- Menu System, Toolbars, Code Designer, Solution Explorer, Object Browser, Toolbox, Class View Window, Properties Window, Server Explorer, Task List, Output Window, Command Window.

UNIT 2: VB.Net Creating Applications with Visual Basic.NET, Variables, Constants, and Calculations, Making Decisions and Working with Strings, Lists, Loops, Validation, Sub Procedures and Functions, Multiple Forms, Standard Modules, and Menus, Arrays, Timers, Form Controls, File Handling, Exception Handling, Working with Databases, Advanced Database Programming using ADO.net, Classes, Generics, Collections, Inheritance, Custom Controls, Packaging & deployment, Using Crystal Reports.

UNIT 3: Programming in Visual basic .Net Data Types, Keywords, Declaring Variables and Constants, Operators, Understanding Scope and accessibility of variables, Conditional Statements- If- Then, If-Then-Else, Nested If, Select Case, Looping Statement- Do loop, For Loop, For Each-Next Loop, While Loop, Arrays-Static and Dynamic. - Creating MDI Parent and Child, Functions and Procedures- Built-In Functions- Mathematical and String Functions, User Defined Functions and Procedures.

UNIT 4: ASP.NET Building a Web Application, Examples Using Standard Controls, Using HTML Controls, Validating Form Input Controls using Validation Controls, Understanding Applications and State, Applying Styles, Themes, and Skins, Creating a Layout Using Master Pages, Binding to Databases using Controls, Data Management with ADO.net, Creating a Site Navigation Hierarchy, Navigation Controls, Membership and Role Management, Login Controls, Securing Applications, Caching For Performance, Working with XML, Using Crystal Reports in Web Forms.

UNIT 5: Databases: Introduction, Using SQL to work with database, retrieving and manipulating data with SQL, working with ADO.NET, ADO.NET architecture, ASP.NET data control, data source control, deploying the web site. Crystal reports. LINQ: Operators, implementations, LINQ to objects, XML, ADO.NET, Query Syntax. Stored Procedures

Text Books:

1. Visual Basic.Net Black Book by Steven Holzner Dreamtech Press
2. The Complete Reference Visual Basic .NET Jeffery R. Shapiro Tata McGraw Hills

Reference Books:

1. Visual studio 2010 - A beginners guide - Joseph Mayo
2. Murach's Beginning Visual basic .Net By Anne Bohem
3. Programming Visual Basic .NET Dave Grundgeiger Publisher: O'Reilly First Edition January 2002

BCA404T: UNIX PROGRAMMING

Total Teaching Hours: 52

No of Hours/ Week: 04

Unit - I

12 Hours

Introduction: History, salient features, Unix system architecture, Unix command format, Unix internal and external commands, Directory commands, File related commands, Disk related commands, general utilities. Unix File System: Boot inode, super and data block, in-core structure, Directories, conversion of pathname to inode, inode to a new file, Disk block allocation. Process Management: Process state and data structures of a Process, User vs, kernel node, context of a Process, background processes, Process scheduling commands, Process terminating and examining commands.

Unit - II

10 Hours

Secondary Storage Management: Formatting, making file system, checking disk space, mountable file system, disk partitioning, file compression. Special Tools and Utilities: Filters, Stream editor SED and AWK, Unix system calls and library functions, Processes, signals and Interrupts, storage and compression facilities.

Unit- III

10 Hours

Shell Programming: vi editor, shell types, shell command line processing, shell script features, executing a shell script, system and user-defined variables, expr command, shell screen interface, read and Echo statement, command substitution, escape sequence characters, shell script arguments, positional parameters, test command, file test, string test, numeric test.

Unit-IV

10 Hours

Conditional Control Structures-if statement, case statement Looping Control Structure-while , until, for, statements. Jumping Control Structures - break, continue, *exit*. Shell Programs covering the above concepts.

Unit - V

10 Hours

Unix System Communication: Introduction, write, read, wall commands, sending and handling mails. System Administration: Roles of a System Administrator, File System Maintenance, System Startup and Shutdown, User Management, Backup and Resto re, Doemons, Domain Name System DNS, Distributed File System.

BCA405T: SOFTWARE ENGINEERING

Total Teaching Hours: 65

No of Hours/ Week: 05

Unit - I

Introduction: Software Products and Software process, Process models: Waterfall modal, Evolutionary Development, Bohemia's Spiral model, Overview of risk management, Process Visibility, Professional responsibility. Computer based System Engineering: Systems and their environment, System Procurement, System Engineering Process, System architecture modelling. Human Factors, System reliability Engineering. Requirements and Specification: The requirement Engineering Process, The Software requirement document, Validation of Evolution of requirements, Viewpoint - oriented & method based analysis, system contexts, Social 7 organizational factors . Data flow , Semantic, Object s, models , Requirement Specification, Non functional requirement. [13 Hours]

Unit - II

Software Prototyping: Prototyping in software process, Prototyping techniques, User interface prototyping. Software Design: Design Process, De sig n Strategies, Design Quality , System Structuring control models, Modular decomposition n , Domain Specific architecture. [13 Hours]

Unit-III

Object Oriented& function oriented design: Objects, object Classes and inheritance Object identification, An object oriented design example, Concurrent Objects, Data flow design Structural decomposition, Detailed Design, A Comparison of design Strategies.

User intelface design: De sig n Principle s, User System interaction, Information Presentation , User Guidance, Interface Evaluation. [13 Hours]

Unit - IV

Software Reliability and reusability : Software reliability metrics , Software reliability Specification , Statistical testing ,Reliability Growth mode ling, Fault avoidance & tolerance, Exception handling & defensive programming , Software development with reuse, Software' development for reuse , Generator based reuse, Application System Portability. [13 Hours]

Unit - V

Software Verification and Validation : The testing Process , Test Planning & Strategies, Black Box , Structural, interface testing , Program inspections , Mathematically based verification, Static analysis tools, Clean room software development. Management Issues: Project management, Quality management, Software cost estimation, Software maintenance.
[13 Hours]

Text book

1. Ian Sommerville - Software Engineering, 9th Edition, Pearson Education Ltd, 2010.

Reference Books

1. Roger S. Pressman - Software Engineering, A Practitioner's approach, 7th Edition, McGRAW-HILL Publication, 2010.
2. Pankaj Jalote, "An integrated approach to Software Engineering", 3rd Edition, Narosa Publishing House, 2013

UNIX AND SHELL PROGRAMMING LAB

1. Write a shell script to print all the prime numbers between m to n ($m < n$).
2. Write a shell script to reverse a given number and check whether it is a palindrome.
3. Write a shell script to find the sum of digits of a given number using loops and without using loops.
4. Write a shell script to implement 10 unix commands using case .
5. Write a Shell script that displays list of all the files in the current directory to which the user has read, write and execute permissions?
6. Write a shell script to copy a file
 - i) copy file within current directory.
 - ii) copy file between two directories.
7. Write a Shell script to create 2 data files and compare them to display unique and common entries.
8. Write a Menu driven shell script to perform the following
 - a. To count the number of vowels in a string.
 - b. To convert uppercase characters to lowercase and vice versa.
 - c. To accept a word and perform pattern matching in a given file.
9. Write awk script to find number of words, characters and lines in a file.
10. Create an emp file containing empname, empno, dept, designation.
 - a. Display empname and empno of any particular dept and the count of employees.
 - b. Display empname and empno of employees who are not managers.
11. Write a system program to demonstrate fork(),exec(),wait(),exit() system calls to execute ls -l command in the child process.
12. Write a Menu driven program to demonstrate zombie process and orphan process.

PART-B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 8 Programs has to be prepared).

Note:

a) The candidate has to write two the programs One from Part-A and other from Part-Band execute one program as of External examiner choice.

b) A minimum of 10 Programs has to be done in Part-Band has to be maintained in the Practical Record.

c) Scheme of Evaluation is as follows:

Writing two programs - 10 Marks

Execution of one program - 10 Marks

Formatting the Output - 05 Marks

Viva - 05 Marks

Record - 05 Marks

Total - 35 Marks

Vb.NET Lab

Part A

Ten Programs

PART-B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 8 Programs has to be prepared).

Note:

a) The candidate has to write two the programs One from Part-A and other from Part-Band execute one program as of External examiner choice.

b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.

c) Scheme of Evaluation is as follows:

Writing two programs - 10 Marks

Execution of one program - 10 Marks

Formatting the Output - 05 Marks

Viva - 05 Marks

Record - 05 Marks

Total - 35 Marks

Bengaluru City University

Bangalore

IV Semester B.A, B.Ss, B.C.A,B.Com, BBM or
HRM

No. of Credits: 2

Max Marks: 70

No. of Hours:42

Internal Assessment: 30

Personality Development

Introduction:

Personality Development is a development of the organized pattern of behaviors and attitudes that make a person distinctive. It is concerned with the views of others and how they realize you and what they see in you. It occurs by ongoing interaction of temperament, character and environment. Erik Erikson provided an insight full description as to how personality develops based on his extensive experience. He has identified eight phases of the socialization process of an individual. Five of them occur during infancy, childhood and adolescence. Personality Development is different from self-development which is generally perceived as same. They are related to each other.

But eastern philosophy in general and Indian spirituality in particular understands personality from a different context. Swami Vivekananda says, "Personality Development in the real sense refers to deeper level of a person". Hence, he opines that a study of personality should start from a clear grasp of nature of our mind, and how it functions. Mind has four fold functions like manas, buddhi, chitta and ahamkara. He has identified four essential qualities for personality development. They are faith in oneself, think positive thoughts, attitude towards failures and mistakes, self-reliance & renunciation and service.

Unit: 1

18HRS

Self-Awareness: Meaning of self-awareness-Components
improving self-awareness-Benefits of Understanding self

Goal setting: Meaning of goal and goal setting - short,
medium and long term goals- Importance of goal Setting -
Choices/selection of setting goals-Steps for goal setting smart

Creativity: Meaning of Creativity - Difference with Innovation-
Barriers to creativity-Steps to stimulate creativity-
Understanding and importance of human values-Difference
with ethics, Ideals in life - becoming a role model

Unit - II

12HR

Interpersonal Skills- Meaning of Interpersonal skills- Need to
develop Interpersonal skills- Components of Interpersonal
skills- Techniques required to improve skills - Benefits of
effective interpersonal skills

Stress Management: Meaning of stress- Factors causing stress-
Positive and negative types of stress- Effects of stress on body
and mind-Stress removal techniques.

Unit - III

12HRS

Time Management: What and why of Time Management -
Necessity and benefits of time management - Tools of time
management-How to manage time wisely

Leadership Development: Meaning and Importance-Types of
leadership styles-Theories of leadership

Pedagogy:

1. Activities exercises and assignments have to be given not less than 40% weightage
2. Appropriate Case studies could be used
3. YouTube videos to be used effectively

References:

1. Vikas (Life skills Manual) : Published by: Member Secretary & Executive Director, Kamataka Jnana Aayoga (Kamataka Knowledge Commission) Govt of Kamataka ,Copy Right:2010 Kamataka Jnana Aayoga
2. Manika Ghosh, " Positivity -A way of Life", Published by Orient Blackswan Pvt Ltd
3. Swami Vivekananda "Personality Development" Published by Ramakrishna Math And Ramakrishna Mission (December 2011)

Eligibility for teaching:

This subject could be taught by all teachers who have undergone some training or other in the given topics. Regular trainers could also be explored

**Bachelor s of Computer
ApplicationsIV
cmester
BCA403P: VB. ET Lab**

Part A programs

1. Write a VB.NET program to move the Text continuously from Left to Right.
2. Write a VB.NET program for blinking aJl im age.
3. Write a VB.NET program to accept a number from a user through InputBox and display its multiplication table into the ListBox.
4. Write a VB.NET programs to change the color of a component.
5. Write a VB.NET program to add two Textboxes, two Labels and one button at runtime.
6. Write a VB.NET program to accept two numbers in textboxes and handle DivideByZeroException.
7. Write a VB.NET program to input employee details , accept the details from the user. Clicking on Submit button ct Salary should be calculated and displayed into the TextBox . Display the MessageBox informing the Name and el Salary of employee.
8. Design a VB.NET form to pick a date from DateTimePickcr Control and display day, month and year in separate text boxes.
9. Write a VB.NET program to create a MDI child fonn during run time
10. Write a Vb.net program to design the MCQ form, select the question number from combo box that que tion will be d.isplayed into textbox and the options for that question will be displayed on four radio bunons, select option and click on submit button result should be displayed in another textbox.
11. Write a VB.NET program to create a table Patient (PiclPName,Contact o, Disease). Insert records into table and display appropriate message in message box. (Use MS Access to create db).
12. Write a VB.NET program to create a login page. Insert and records and display appropriate message.