# P.K.R ARTS COLLEGE FOR WOMEN

(Accredited with 'A' Grade by NAAC)
An Autonomous Institution – Affiliated to Bharathiar University
No.:21 Pariyur Road, Gobichettipalayam – 638 476.

# **Department of Computer Science**

# POST GRADUATE DIPLOMA IN COMPUTER APPLICATION

## **BOARD OFSTUDIES**

for the candidates admitted from the Academic Year 2021-2022 and onwards

Under CBCS PATTERN



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## POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS

**Course Scheme and Scheme of Examinations (Regular Stream)** 

(For students admitted from 2021-22& onwards)

Part	Category	tegory Course Code Title of the Course		ContactHrs/ week	Exam Duration brs	ľ	Max. Ma	arks	Credits
			Tive of the Course	Con	Con		ESE	Total marks	C
			I -SEMESTER						
III	Paper- I	21PGDCA01	Introduction to Information Technology	6	3	50	50	100	4
III	Paper -II	21PGDCA02	Operating System	6	3	50	50	100	4
III	Paper -III	21PGDCA03	Programming in C	6	3	50	50	100	4
III	Paper -IV	21PGDCA04	Office Automation - Lab	6	3	50	50	100	4
III	Paper -V	21PGDCA05	Programming in C - Lab	6	3	50	50	100	4
			TOTAL	30				500	20
			II –SEMESTER						
III	Paper -VI	21PGDCA06	Networking Fundamentals	6	3	50	50	100	4
III	Paper -VII	21PGDCA07	Web Technology	6	3	50	50	100	4
III	Paper -VIII	21PGDCA08	Relational Database Management Systems	6	3	50	50	100	4
III	Paper - IX	21PGDCA09	Networking and Web Programming – Lab	6	3	50	50	100	4
III	Paper- X	21PGDCA10	RDBMS using Oracle - Lab	6	3	50	50	100	4
			TOTAL	30				500	20

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper I	Core : I	21PGDCA01	INTRODUCTION TO INFORMATION TECHNOLOGY	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

## **Preamble**

To learn about basic computers, Ms-Word, Ms-Excel, Ms-Powerpoint and Internet applications

#### **Course Outcomes**

On the successful completion of the course, students will be able to

COs	Course Outcome	Knowledge Level (RBT)
CO1	Enumerate the concepts of computers, Ms-office and Internet Applications	K1
CO2	explain the process of computers and Ms-Office utilities	K2
CO3	Utilise the functions of different generation of computers and Ms-office functions with Internet options	К3
CO4	Infer the options of Utilities and characteristics of computers	K4
CO5	Elucidate Ms-Word, Ms-Excel, Ms-Powerpoint functions and operating system functions	K5
CO6	Design and develop real –time applications using Ms-Office	К6

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;

## UNIT-I INTRODUCTION TO COMPUTERS (15 Hours)

Introduction to Computers – characteristics – history – generations - classifications application of computer - hardware and software - operation systems - computer language - Windows - windows basics – introduction - starting windows - using mouse - using menus in windows.

## UNIT-II INTRODUCTION TO MS - WORD (15 Hours)

Word, introduction to word - editing a document - move and copy text and help system, formatting text & paragraph - finding and replacing text and spell checking - tables & other features - templates and wizards using mail merge - miscellaneous features of word.

## UNIT III INTRODUCTION OF MS - EXCEL (15 Hours)

Introduction of worksheet & excel -Getting started with excel - editing cells and using commands and functions - moving and copying - inserting and deleting rows and columns, getting help and formatting a worksheet - printing the worksheet - creating charts -using date and time and addressing modes - naming ranges and using statistical - math and financial functions.

## Unit IV INTRODUCTION OF MS-POWER POINT (14 Hours)

Power point basics editing text adding subordinate points - deleting slides - working in outline view - using design templates - adding graphs - adding organization charts - running an electronic slide show - adding special effects.

#### Unit V OVERVIEW OF WWW (13 Hours)

Definition-Advantages of browsers – Brief overview of servers - URL definition – Introduction to World Wide Web (WWW) – Brief study of HTML tags – client/server Architecture in internet – Domain name – Extension types internet services – addressing scheme– feature of internet.

#### **TEXT BOOKS:**

- 1. Fundamentals of computers 2nd edition, V. Rajaraman, Pai.
- 2. Easy Office 2000, SISO Books
- 3.MS Office, C.Nellikannan, Nels Publication
- 4. Internet Complete Reference, Healey Halin, Tata MaCra

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper - II	Core : II	21PGDCA02	OPERATING SYSTEM	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

## **Preamble**

To learn about basic operating system abstractions, mechanisms and their implementations

## **Course Outcomes**

On the successful completion of the course, students will be able to

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Recall the Operating System concepts	K1
CO2	Describe all functions of operating system and I/O Management	K2
CO3	Applythe operating system operations	К3
CO4	analyse I/O devices and files	K4
CO5	Judge types of operating systems and distributed systems	K5
CO6	Construct and discuss the function and process of operating system	K6

 $K1-Remember; \qquad K2-Understand; \qquad K3-Apply; \qquad \qquad K4-Analyze;$ 

## UNIT I OVERVIEW OF OPERATING SYSTEM (13 Hours)

Background – Basic Elements – Operating System overview – operating system objectives and functions – Evolution of operating System – Microsoft windows overview – Linux

#### UNIT II PROCESS MANAGEMENT (14 Hours)

Processes – What is a process? – Process States – Process Description – Process Control – Scheduling – Uniprocess Scheduling – Types of process scheduling – Scheduling algorithms - Multiprocess Scheduling – Principles of Deadlock.

## UNIT III MEMORY MANAGEMENT (15 Hours)

Memory Management – Memory Management Requirements – Memory partitioning – Paging – Segmentation.

## UNIT IV I/O AND FILE MANAGEMENT (15 Hours)

I/O Devices – Organization of the I/O function – File Management – Overview – File organization and access – File Directories – File Sharing – Record Blocking – File System Security.

#### UNIT V DISTRIBUTED SYSTEMS (15 Hours)

Distributed Processing – Client/ Server Computing – Service - Oriented Architecture – Distributed Message Passing – Remote Procedure Calls.

#### **TEXT BOOK**

William Stallings, Operating System: Internals and Design Principals, 7<sup>TH</sup>Edition,Pearson Publication.

- 1. H.M.Deitel, Operating System, 2<sup>nd</sup> Edition, Addison Wesley Publishing Company.
- 2. Flynn, McHoes, Operating System, India Edition

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper - III	Core : III	21PGDCA03	PROGRAMMING IN C	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

## Preamble

To learn about the Computer fundamentals and the C programming language concepts

## **Course Outcomes**

On the successful completion of the course, students will be able to

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Recall the concepts of C Language	K1
CO2	Explain operators, decision making statements and other programming concepts	K2
CO3	Illustrate all functions of C Language with programs	К3
CO4	Analyze the different concepts of C language with examples	K4
CO5	Find errors in programs in C language	K5
CO6	Develop and solve real time problems using C Progamming language	K6

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;

## UNIT I OVERVIEW OF C (13 Hours)

History of C – Overview of C – Importance of C – Basic Structure of C Programme – Programming Style – Executing C Programme – Constants, Variables and Data types – Introduction – character Set – C Tokens – Keywords and Identifiers – Constants – Variables – Data types – Declaration of Variables – Assigning values to the variables – Defining Symbolic constant.

## UNIT II OPERATORS AND EXPRESSIONS (14 Hours)

Introduction - Arithmetic, Relational, Logical, Assignment, Conditional, Bitwise, Special, Increment and Decrement operators - Arithmetic Expressions - Evaluation of Expression - Precedence of Arithmetic Operators - Type Conversion in Expression - Mathematical Functions.

## UNIT III DECISION MAKING AND BRANCHING (15 Hours)

Introduction – Decision making with If – Simple IF - The If....Else - Nesting of If ...Else Statements- Else If ladder – The Switch Statement - The ?: Operator – The GotoStatement.Decision Making and Looping: Introduction- The while Statement- The Do Statement – The For Statement-Jumps in Loops.

## UNIT IV ARRAYS (15 Hours)

Introduction – One dimensional Array – Declaration of One Dimensional Array – Initialization of One Dimensional Array – Two Dimensional Array – Initializing Two Dimensional Array.

#### UNIT V FUNCTIONS, STRUCTURES & UNIONS (15 Hours)

User-Defined Functions: Introduction – Need and Elements of User-Defined Functions-Definition-Return Values and their Types - Function Calls – Declarations – Category of Functions- Nesting of Functions – Recursion - Structures and Unions.

#### **TEXT BOOK:**

1. E Balagurusamy, Computing Fundamentals & C Programming , Tata McGraw-Hill, Second Reprint 2008.

- 1. Ashok N Kamthane, Programming with ANSI and Turbo C, Pearson, 2002.
- 2. Henry Mullish& Hubert L.Cooper, The Sprit of C, Jaico, 1996.

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper - IV	Core : IV	21PGDCA04	OFFICE AUTOMATION – LAB	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

Subject Description: This course provides hands on experience on Office Automation

Goal: To enable the students to develop the skill in Ms-Office

**Objectives**: On successful completion of the course the students will understand the concepts of Ms-Office and expertise in using Internet Applications

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Recall the concepts of Ms-office and Internet Applications	K1
CO2	Explain the Ms-Office utilities and accounting features	K2
CO3	Demonstrate the functions of Ms-office with Internet options	К3
CO4	Categorize the Ms- Office utilities using programs	K4
CO5	Find errors in Ms-Word, Ms-Excel, Ms-Powerpoint	K5
CO6	Construct real –time applications using Ms-Office	K6

K1-Remember; K2-Understand; K3-Apply; K4-Analyze;

#### **Practical List**

- 1. Type a paragraph and use Editing options —Inserting —Deleting —Cut, Copy, paste —Undo, Redo —Find, Search, Replace
- 2. Design an invitation using page borders and images.
- 3. Create a Table use the following options (Borders, Alignments, Insertion, deletion, Merging, Splitting, Sorting)
- 4. Using Mail Merge create a letter format and send to the students the exam timetable.
- 5. Computing data using Ms-Excel
  - 1. Finding total in a column or row
  - 2. Mathematical operations (Addition, Subtraction, Multiplication, Division, Exponentiation)
- 6. Create a Chart to display the student performance in academics.
- 7. Create a table using table design in Ms-Access
- 8. Design a presentation for a new product launch in the market.
- 9. Design a presentation using animations and transitions effects.
- 10. Create a companyin Tally
- 11. Create ledgers using tally
- 12. Create vouchers for the ledgers

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper - V	Core: V	21PGDCA05	PROGRAMMING IN C – LAB	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

Subject Description: This course provides hands on experience on C Programming

Goal: To enable the students to develop software in C language

**Objectives**: On successful completion of the course the students will understand the concepts of C language and expertise in using C

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Recall the concepts of C Language	<b>K</b> 1
CO2	Explain operators, decision making statements and other programming concepts	K2
CO3	Illustrate all functions of C Language with programs	К3
CO4	Analyze the different concepts of C language with examples	K4
CO5	Find errors in programs using C language	K5
CO6	Develop and solve real time problems using C structures and functions	K6

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;

#### **Practical List**

- 1. Write a C program to find the sum and average for given numbers.
- 2. Write a C program to find the prime numbers.
- 3. Write a C program to find the factorial of a given number.
- 4. Write a C program to generate Fibonacci series.
- 5. Write a C program to sort the given set of numbers in ascending order.
- 6. Write a C program to find whether the given number is even or odd.
- 7. Write a C program to check whether the given string is palindrome or not.
- 8. Write a C program using the concept of switch case.
- 9. Write a C program using functions.
- 10. Write a C program using Structures.

## SEMESTER – II

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper -VI	Core : VI	21PGDCA06	NETWORKING FUNDAMENTALS	72	4

Contact hours per semester: 72 Contact hours per week: 6

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

## **Preamble**

To understand the concepts and design of Computer Networks

## **Course Outcomes**

On the successful completion of the course, students will be able to

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Outline the overview of OSI model and Layers	K1
CO2	Explain the concept of seven layers and its working	K2
CO3	Apply protocols and algorithms in appropriate layers	K3
CO4	Summarize the technical trends in of computer networking	K4
CO5	Evaluate the challenges in building networks and solutions	K5
CO6	Discuss the key technological components of the network	K6

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;

#### UNIT I OVERVIEW OF NETWORKS (13 Hours)

Introduction - Uses of computer networks - Local Area Networks - Metropolitan Area Networks - Wide Area Network - Reference models - The OSI Reference Model.

## Unit II PHYSICAL & DATA LINK LAYER (14 Hours)

PHYSICAL LAYER - Guided Transmission Media: Magnetic Media - Twisted Pair - Coaxial Cable - Fiber Optics - DATA-LINK LAYER: Framing - Error Control - Error Detection and correction

#### Unit III NETWORK LAYER (15 Hours)

Store and Forward Packet Switching – Comparison of Virtual Circuit and Datagram Networks – Routing Algorithm – Shortest Path Algorithm – Broadcast Routing

## Unit IV TRANSPORT AND SESSION LAYER (15 Hours)

Transport Service Primitives – Addressing – Introduction to TCP – TCP Service Model – TCP Protocol – Connection Establishment – Connection Release.

#### Unit V PRESENTATION AND APPLICATION LAYER (15 Hours)

DNS – Electronic Mail - Architecture and Services – World Wide Web – Architectural Overview – Static Web Page – Dynamic Web page

#### **TEXT BOOK**

Andrew S Tanenbaum David J Wetherall, Computer Networks, 5th Edition, McGraw Hill Education

- 1. Data Communications and Networks, AchyutGodbole and AtulKahate, McGraw Hill Education, 2011.
- 2. Behrouz A Forouzan, Data Communications and Networking, Tata McGraw Hill, Fifth Edison, 2013.

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper- VII	Core : VII	21PGDCA07	WEB TECHNOLOGY	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

## **Preamble**

To enable the students to learn the concepts of web technologies

## **Course Outcomes**

On the successful completion of the course, students will be able to

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Describe the concept of Internet applications and dealing with web designing languages	K1
CO2	Derive the structure of Web Architecture using HTML, XML and WAP	K2
CO3	Apply the HTML and XML tags to develop a web page	К3
CO4	Analyze the insight on dynamic web pages and other programming languages	K4
CO5	assess the needsof WAP and XML and how it differs from static web page	K5
CO6	Develop real time web applications using HTML and XML	K6

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;

#### UNIT I BASICS OF INTERNET (15 Hours)

Internetworking Concepts, Devices, Basics, History and Architecture: Why Internetworking?

- Problems in Internetworking - Dealing with In Compatibility Issues - Internetworking

Devices - A Brief History of Internet - Growth of Internet - Internet Topology - ISP.TCP/IP: TCP/IP Basics - Why IP address - Logical Address - TCP/IP Example- The concept of IP address Relationship between TCP and IP.

## UNIT II WEB ARCHITECTURE (14 Hours)

DNS – E-mail – FTP – TFTP - Remote Login (TELNET). – History of WWW – Basics of WWW and Browsing - Local information on the internet – Web Browser Architecture – Web Pages and Multimedia.

## UNIT III WEB TECHNOLOGY (13 Hours)

Hypertext MarkupLanguage(HTML) - HTML Frames - HTML Forms. Introduction to Web Technology: Web pages - Tiers - Concept of a Tier - Static Web Pages.

## UNIT IV DYNAMIC WEB PAGES (15 Hours)

Dynamic Web Pages: Need for Dynamic Web Pages – Overview of Dynamic Web Page Technologies - Overview of DHTML – Common Gateway Interface – ASP – ASP Technology – ASP Example – Modern Trends in ASP – Java and JVM – Java Servlets – Java Server Pages.

## UNIT V XML & WAP (15 Hours)

XML: Basics of XML – XML Parsers – Need for a standard. WAP: Limitations of Mobile devices – Emergence of WAP – WAP Architecture – WAP Stack – Concerns about WAP and its future – Alternatives to WAP.

#### **TEXT BOOKS:**

Web Technologies: TCP/IP to Internet Applications Architectures – Achyut S Godbole& AtulKahate, 2007, TMH.

- 1. Internet and Web Technologies, Rajkamal, TMH.
- 2. TCP/IP Protocol Suite, Behrouz A. Forouzan, 3rd edition, TMH.

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper - VIII	Core : VIII	21PGDCA08	RDBMS & ORACLE	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

## **Preamble**

To enable the students to learn about the concepts of database system and manipulation of data

## **Course Outcomes**

On the successful completion of the course, students will be able to

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Remember the basic concepts of database system	K1
CO2	Describe the implementation concepts using syntax in relational database	K2
CO3	Demonstrate the DML statements and DDL statements	К3
CO4	Classify PL/SQL programs with different operations using Database syntaxes	K4
CO5	Summarize all PL/SQL statements with syntax	K5
CO6	Generalize the function of cursors and PL/ SQL statements	К6

 $K1-Remember; \qquad K2-Understand; \qquad K3-Apply; \qquad \qquad K4-Analyze;$ 

## UNIT I OVERVIEW OF DBMS (13 Hours)

Database Concepts: A Relational approach: Database – Relationships – DBMS –Relational Data Model – Integrity Rules – Theoretical Relational Languages. DatabaseDesign: Data Modeling and Normalization: Data Modeling – Dependency – Database Design– Normal forms – Fundamentals of ER Diagrams.

#### UNIT II OVERVIEW OF ORACLE (14 Hours)

Oracle Tables: DDL: Naming Rules and conventions – Data Types – Constraints – CreatingOracle Table – Displaying Table Information – Altering an Existing Table – Dropping,Renaming, Truncating Table.

## UNIT III DATA MANIPULATION (15 Hours)

Working with Table: Data Management and Retrieval: DML – adding a newRow/Record – Updating and Deleting an Existing Rows/Records –retrieving Data from Table – Arithmetic Operations – restricting Data with WHERE clause –Sorting – ORDER BY – GROUP BY

## UNIT IV PL/SQL (15 Hours)

PL/SQL: A Programming Language: History – Fundamentals – Block Structure –Comments – Data Types – Other Data Types – Declaration – Assignment operation – Bindvariables – Substitution Variables – Printing – Arithmetic Operators. Control Structures: Control Structures – Nested Blocks

#### UNIT V CURSORS (15 Hours)

PL/SQL Cursors and Exceptions: Cursors – Implicit &Explicit Cursors and Attributes – Cursor FOR loops – SELECT...FOR UPDATE – WHERECURRENT OF clause – Cursor with Parameters – Cursor Variables – Exceptions – Types of Exceptions.

#### **TEXT BOOK:**

Database Systems using Oracle, Nilesh Shah, 2nd edition, PHI.

- 1. Database Management Systems, Majumdar & Bhattacharya, 2007, TMH.
- 2. Database Management Systems, Gerald V. Post, 3rd edition, TMH.

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper- IX	Core : IX	21PGDCA09	Networking and Web Programming – Lab	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

**Subject Description**: This course provides hands on experience on networking and Web Programming

Goal: To enable the students to work effectively with Networking and Web Programming concepts

**Objectives**: On successful completion of the course the students will be able to build system architecture and networking and web programming options.

Cos	Course Outcome	Knowledge Level (RBT)
CO1	identify the network commands, HTML commands	K1
CO2	Classify the network commands and HTML tags	K2
CO3	Apply different procedures to configure networks and illustrate web page commands	К3
CO4	Analyze the file information in network and background tags with images in HTML	K4
CO5	Compare the network commands in different networks and find errors in HTML tags	K5
CO6	Construct HTML procedures for webpage creation and configure different types of networks	К6

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;

#### **Practical List**

- 1. Study of basic network command and Network configuration commands.
- 2. Write a procedure to share a file in a network
- 3. Write a program to send Good Morning Message through LAN Network
- 4. Write a procedure to create, copy, rename the folders in a system
- 5. Write a procedure to print a document in the system
- 6. Write a procedure to create an electronic mail and send a mail to the user
- 7. Write a some commands in HTML
- 8. Write a procedure to insert background color and marquees in HTML
- 9. Write a procedure to insert images in the webpage
- 10. Write a procedure to create simple webpage

Category	Course Type	Course Code	Course Title	Contact Hours	Credit (C)
Paper - X	Core : X	21PGDCA10	RDBMS & Oracle – Lab	72	4

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	50	100

**Subject Description**: This course provides hands on experience on PL/SQL Programming and Oracle

Goal: To enable the students to work effectively with PL/SQL and Oracle

**Objectives**: On successful completion of the course the students will be able to build real world applications using PL/SQL and Oracle

Cos	Course Outcome	Knowledge Level (RBT)
CO1	Recall the basic concepts of database system	K1
CO2	Illustrate the features available in a RDBMS package	<b>K2</b>
CO3	Construct appropriate DDL and DML queries for database manipulation	К3
CO4	Analyse database requirements to design database	K4
CO5	Assess data in tables against appropriate constraints	K5
CO6	Build simple solutions to real world problems using SQL queries	K6

K1-Remember; K2-Understand; K3-Apply; K4-Analyze;

#### **Practical List**

1. Create a table "Company" with the following fields and insert the values for 10 employees.

Field Name	Field Type	Field size
Company Name	Character	15
Proprietor	Character	15
Address	Level of Correlation : $0 - N$	(il; 1 –Low; 3 – Medium; 9 –
High		
As per UGC NotificationCh	aracter 25	
Supplier Name	Character	15
No of employees	Number	4
GP Percent	Number	6 with 2 decimal places

- 2. Using the above table display the Results:
- a) Display all the records of the company which are in the ascending order of GP percent.
- b) Display the name of the company whose supplier name starts with "T".
- c) Display the details of the company whose GP percent is greater than 20 and order by GP Percent.
- d) Display the detail of the company having the employee ranging from 300 to 1000.
- e) Display the name of the company whose supplier is same as the Tata's.
- 3. Create a table named "Student" with the following fields and insert the values.

Field Name	Field Type	Field Size
Student Name	Character	15
Student Code	Number	6
Address	Character	25
Course Name	Character	15
Percentage	Number	4 with 2 decimal places

Insert the appropriate values in the table.

- 4. Using the above table display the Results:
- a) Display the average percentage of students.
- b) Display the names of the students whose percentage is greater than 80.
- c) Display the details of the student who got the highest percentage.
- d) Display the details of the students whose percentage is between 50 and 70.
- e) Display the details of the students whose percentage is greater than the percentage of the roll no=17CA01
- 5. Create a Table Publisher and Book with the following fields:

Field Name	Field Type	Field Size
Publisher Code	VarChar	5
Publisher Name	VarChar	10
Publisher city	VarChar	12
Publisher State	VarChar	10
Title of book	VarChar	15
Book Code	VarChar	5
Book Price	VarChar	5

#### Use DML commands

- 6. Using the above table display the Results
  - b) Insert the records into the table publisher and book.
  - c) Describe the structure of the tables.
  - d) Show the details of the book with the title "DBMS".
  - e) Show the details of the book with price>300.
  - f) Show the details of the book with publisher name "PHI".
- 7. Using the above table display the Results
  - a) Select the book code, book title, publisher city is "Delhi".
  - b) Select the book code, book title and sort by book price.
  - c) Count the number of books of publisher starts with "BalaGurusamy".
  - d) Find the name of the publisher starting with "S".
- 8. Write a PL/SQL Program to add two numbers
- 9. Write a PL/SQL program to display ODD or EVEN numbers
- 10. Write a PL/SQL program to generate Fibonacci number.