National Public school, Rajajinagar, Bangalore-10

Class: XII

Project Guidelines

Areas to be covered in the project

- **▶** Problem Solving
- ➤ Data Structure
- Object Oriented Programming concept
- Data File Handling

Contents of the project

- Defining Data structure/Class
- Choosing files for storage of data
- Types of Processing(updation/deletion/inserting/sorting)
- Queries(information displayed on a particular query)
- Output Required at each stage

Types of Project

Projects can be of two types

☐ Information System☐ Processing System

GUIDELINES FOR DEVELOPING PROJECTS BASED ON INFORMATION SYSTEM

- Systematic ways of representing information about various fields.
- ❖ A Information System is a system for creating, storing, analyzing and managing spatial data and associated attributes.
- * it is a computer system capable of integrating, storing, editing, analyzing, sharing, and displaying information.

Examples:

- Galaxies
- Zodiac signs
- > Famous personalities
- Chemical Compounds
- > Tourism Guide
- ➤ Enquiries on railways/Airways/Roadways

GUIDELINES FOR DEVELOPING PROJECTS BASED ON PROCESSING SYSTEM

 Online/offline transactions on data files (Making changes in the data file whenever the transaction occurs.)

Examples:

Database management

- Banking (The balance amt should be updated when ever the customer credits/debits in his account.)
- Reservations (Airways/Railways/Roadways)
- Library management (status of the book should be changed whenever the book is issued /returned).
- Inventory management

The following steps have to be kept in mind in both the type of projects

1. MAINTAINENCE

- Designing data structure using class. (Defining Data by declaring data of various types)
- Functions Definition (Defining the suitable functions for storing and updating the information time to time.)

Functions to be used

- Creating a file to store the basic data required for providing information
- Updating files
- **❖** Adding new record(s)
- **❖** Deleting record(s)
- Modifying records
- Sorting based on different fields.

2. QUERIES

❖ Different ways of representing information to the user based on criteria .

3. OUTPUT

- Displaying information in proper layout
 - Consolidated way of representing information .
 (Providing output from the single source /multiple sources)
 - Providing statistical information
 - Providing Sorted information

PROJECT TOPICS

- 1. QBank
- 2. Tourism
- 3. Any Science Topics about Planets, Molecules, Chemical salts etc.
- 4. Foreign Universities Database giving information about different university admission procedure, fee structure, scholarship etc.
- 5. Quiz program on any topics different levels
- 6. Information about Popular People
- 7. Hospital managements
- 8. Hotel Management
- 9. Club/Resort management
- 10. Library management (Books / Cassettes / Cds)
- 11. CET Seat allotment
- 12. Real Estate management
- 13. Automobiles management
- 14. Flight / Train /Bus Reservations /cancellations
- 15. Developing word processing software using C++
- 16. Stores management
- 17. Banking / Transactions
- 18. School Management
- 19. Office Management Managing employees, products etc..
- 20. Web Shopping
- 21. Departmental stores billing, maintaining
- 22. Super selector Cricket / Football etc.. ranking
- 23. Inventory whole Sales management
- 24. Consultancy services
- 25. Air Cargo department
- 26. Report Card Generation
- 27. Vehicle Management system

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