

Q8. Define the terms:

1. Data encapsulation
2. Data hiding
3. Data abstraction
4. Inheritance
5. Polymorphism
6. Objects
7. Class
8. Member function

UNIT-II

- Q9. How is a pointer variable declared? What kind of information is stored by a pointer variable? Differentiate between call by value and call by address with suitable example.
- Q10. Explain the concept of passing one dimensional, two dimensional arrays through functions with suitable example of each.

UNIT-III

- Q11. Explain the visibility of base class members for the access specifiers: private, protected and public while creating the derived class and also explain the syntax for creating derived class.
- Q12. What is the role of constructor and destructor? Write a C++ program to define a suitable parameterized constructor with default values for the class distance with data members feet and inches

UNIT-IV

- Q13. Define Function Overloading. Write a C++ program to define three overloaded functions to swap two integers, swap two floats and swap two doubles.
- Q14. Define the term file. Write a C++ program to read text file and perform following operation
1. Display count of character in file
 2. Display count of new line in file.

SECTION-C

Q15. Create a class named *Student* with the following specifications :

An instance variable named *name* to hold a student's name

An instance variable named *rollno* to hold a student's roll number

An instance variable named *scores* to hold a student's 5 exam scores.

A void *input()* function that reads 5 integers and saves them to *scores*

An int *calculateTotalScore()* function that returns the sum of the student's scores.

A void *search()* function to search a student record based on name and print its record i.e name, rollno, scores .

Inside *main()* function create array of objects and call all functions to simulate the program

(Note : take necessary assumptions where required)

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