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ASSIGNMENT-3

CLASS : 10 **Submission : 31/08/2022**

1.	WAP to store 10 numbers in an array and print the sum of all the ten numbers.
2.	WAP to input 10 numbers in an array and display in reverse order without using a second array.
3.	WAP to input 10 numbers in an array and store the elements in reverse order in another array, Display both the arrays.
4.	WAP to input 'n' numbers in an integer type array, where n is entered by the user and display the first and the last element.
5.	Write a program that creates integer array of 10 elements, accepts values of arrays and Find sum of all odd numbers
6.	Write a program which takes in 10 values and creates another array which has cubes of the values and print both the arrays.
7.	Write a program to input 10 numbers in an array and print only those numbers which are prime.
8.	Write a program to input 10 integer elements in an array and sort them in descending order using the bubble sort technique.
9.	The annual examination result of 10 students in a class is tabulates ad follows. Roll num Name Maths English Total …….. …… …….. …… ……. Write a program to accept Roll num, name and marks in an array and then calculate total and store it in array and display the following in the format given above
10.	Define a class Employee described below: Class name : **Employee** Data Members/Instance Variables : String name : to store name of employee String empno : to store employee number Int basic : to store basic salary

	Member methods : Employee(String n, String en, it sal) : parameterised constructor to store **n** to **name**, **en** to **empno** and **sal** to **basic** accept() : to accept the details of n employee compute() : to compute the gross and net salary as : da = 30% of basic hra = 15% of basic pf = 12% of basic gross = basic + da + hra net = gross – pf display() : to display name, empno, gross and net salary Write a main method to create an object and call the member methods.
11.	Define a class **Marks** as per the given specifications: Class Name : **Marks** Data Members / Instance Variables String Name: stores the name of student int Age : stores the age of student int Eng : stores English marks int Math : stores Maths marks int Sci : stores Science marks double Average : stores average of all three marks Member Methods : Marks (String n, int E, int M, int S) :parameterised constructor to input details Compute () : Computes the average of three subjects display () : to display name, age, marks in subjects and average Write a main method to create an object of a class and call the methods.
12.	Define a class **MovieMagic** as per the given specifications: Class Name : **MovieMagic** Data Members / Instance Variables String title: to store the title of the movie int year : to store the year of release float rating : to store the popularity rating of the movie (minimum rating = 0.0 and maximum rating =5.0 Member Methods : MovieMagic() :default constructor to initialise data void accept() : to accept the details void display() : to display title of the movie and a message based on the rating as per given below:

	Rating **Message to be displayed** 0.0 to 2.0 Flop 2.1 to 3.4 Semi-Hit 3.5 to 4.5 Hit 4.6 to 5.0 Super Hit Write a main method to create an object of a class and call the methods.
13.	Write a program to accept 10 different numbers in a Single Dimensional Array. Now enter a number and search whether the number is present or not in the list of array elements by using a Linear Search technique and display the appropriate message accordingly.
14.	Write a program to accept 10 different numbers in a Single Dimensional Array. Now enter a number and search whether the number is present or not in the list of array elements by using a Binary Search technique and display the appropriate message accordingly.
15.	Define a class **ParkingLot** with the following description: Instance variables/data members: int vno – To store the vehicle number int hours – To store the number of hours the vehicle is parked in the parking lot double bill – To store the bill amount Member methods: ParkingLot (int v, int h) : parametrised constructor to assign v to vno and h to hours void calculate () : To compute the parking charge at the rate of Rs 3 for the first hour and thereof Rs 1.50 for each additional hour void display () : To display the details Write a main method to create an object of the class and call the above methods