Practice Questions

1. . Write a function that takes an integer array as input and prints the elements of that array in reverse order.

2. Write a function that receives a time in seconds and returns the equivalent time in hours, minutes, and seconds. Write a main function to test your function. For example if the received time is 4000 seconds, the function returns 1 hour, 6 minutes, and 40 seconds.

3. Write a class named Vehicle that can represent both the Rickshaw and Bike on the basis of number of wheels it has. Each vehicle has the following details
· year. An int that holds the vehicle's model year.
· manufacturer. A string that holds the manufacturer name of that vehicle.
· speed. An int that holds the vehicle's current speed.
In addition, the class should have the following member functions.
· accelerate. The accelerate function should add 5 to the speed member variable each time itis called.
· brake. The brake function should subtract 5 from the speed member variable each time it iscalled.
Demonstrate the class in a program that creates a Vehicle object for a Rickshaw and for a Bike both, and then calls the accelerate function three times. After each call to the accelerate function, get the current speed of the car and display it. Then, call the brake function two times. After each call to the brake function, get the current speed of the car and display it.

4. Write a program in which a class named student has member variables name, roll_no, semester and section. Use a parameterized constructor to initialize the variables with your name, roll no, semester and section. Print all data calling some public methodand display it.

5. Create a class Sales with 3 private variables SaleID of type integer, ItemName of type string , and Quantity of type integer.
   Part (a) Use a default constructor to initialize all variables with any values.
   Part (b) Use a constructor to take user input in all variables to display data.
   Part (c) Use a parameterized constructor to initialize the variables with values of your choice.
   Part (d) Use copy constructor to copy the quantity of previously created object to current one.

6. Make a class named Fruit with a data member to calculate the number of fruits in a basket. Create two other class named Apples and Mangoes to calculate the number of apples and mangoes in the basket. Print the number of fruits of each type and the total number of fruits in the basket.

7. Create a class name student having data members: student name, roll no and four subject marks

   Write a member function to:

   Input student name, roll no and marks of subjects

   Calculate percentage

   Display all information

   Write a main function to test the program

   STEP1: start the program

   STEP2: define class student and define data member function and member variable.

   STEP3: use cin and cout to take value by user and put text on screen respectively

   STEP 4: stop