**Lab-Work 01**

1. Write a C++ program for function to calculate the factorial value of any integer as an argument. Call this function from main( ) and print the results in main( ).
2. Write a C++ program for function that receives two numbers as an argument and display all prime numbers between these two numbers. Call this function from main( ).
3. Write a C++ program that lets the user perform arithmetic operations on two numbers. Your program must be menu driven, allowing the user to select the operation (+, -, \*, or /) and input the numbers. Furthermore, your program must consist of following *function*s:  
   -*Function* showChoice: This *function* shows the options to the user and explains how to enter data.  
   - *Function* add: This *function* accepts two number as arguments and returns sum.  
   - *Function* subtract: This *function* accepts two number as arguments and returns their difference.  
   - *Function* multiply: This *function* accepts two number as arguments and returns product.  
   - *Function* divide: This *function* accepts two number as arguments and returns quotient.
4. Write a C++ program that define for a class called **Distance** that has data member feet as integer  and inches as float. The class has the following member functions:  
   **void set(int, float)** to give value to object  
   **void disp()** to display distance in feet and inches  
   **Distance add(Distance)** to sum two distances & return distance  
   - Write the definitions for each of the above member functions.  
   - Write main function to create three Distance objects. Set the value in two objects and call add() to calculate sum and assign it in third object. Display all distances.
5. Write a C++ program that define for a class called **time** that has hours and minutes as integer. The class has the following member functions:  
   **void settime(int, int)** to set the specified value in object  
   **void showtime()** to display time object  
   **time sum(time)** to sum two time object & return time  
   -Write the definitions for each of the above member functions.  
   - Write main function to create three time objects. Set the value in two objects and call sum() to calculate sum and assign it in third object. Display all time objects.