**CLASSES AND OBJECTS**

**AIM:**

To write a C++ program using Classes and Objects.

**ALGORITHM:**

Step 1. Start the program

Step 2. Create a class student which contains primitive data members and constant

data members

Step 3: Define a constructor to initialize the data members

Step 4: Define the methods get and display to get and display the data members

Step 5: Create object for the class to access the member function

Step 6: Display the result

Step 7: Stop the program.

**STATIC MEMBER FUNCTION**

**AIM:**

To write a C++ program to implement static member function

**ALGORITHM:**

Step 1: Start the program.

Step 2: Declare the class name as Stat with data member s and member functions.

Step 3: The constructor stat() which is used to increment the value of count as 1 to to

assign the variable code.

Step 4: The function showcode() to display the code value.

Step 5: The function showcount() to display the count value.

Step 6: Stop the program.

**INHERITANCE AND VIRTUAL BASE CLASS**

AIM:

To calculate the total mark of a student using the concept of inheritance and virtual

base class.

ALGORITHM:

Step 1: Start the program.

Step 2: Declare the base class student.

Step 3: Declare and define the functions getnumber() and putnumber().

Step 4: Create the derived class test virtually derived from the base class student.

Step 5: Declare and define the function getmarks() and putmarks().

Step 6: Create the derived class sports virtually derived from the base class student.

Step 7: Declare and define the function getscore() and putscore().

Step 8: Create the derived class result derived from the class test and sports.

Step 9: Declare and define the function display() to calculate the total.

Step 10: Create the derived class object obj.

Step 11: Call the function get number(),getmarks(),getscore() and display().

Step 12: Stop the program.



* SalariedEmp

Tax=salary\*taxRate;

Calc salary= Salary-tax

* HourlyEmployee

grossPay= hours\*hourlyRate

tax=grossPay\*taxRate

clacSalary=grosspay-tax;