**ASSIGNMENT NO: 01**

**Problem Statement:** Develop an object oriented program in C++ to create a database of student information systems containing the following information: Name, Roll number, Class, division, Date of Birth, Adhar number, Blood group, Contact address, telephone number, etc Construct the database with suitable member functions for initializing and destroying the data. Count the number of students in the database by using a variable count which is a member of the student class. Also display the student information using a static function.

Display the % marks obtained using friend function.

**Objectives:**

1. To learn concepts of classes and objects in C++
2. To learn static members and friend function in C++

**Theory:**

**Explain**

* + **Class**
  + **Object**
  + **Static members**
  + **Friend function**

# Algorithm:

1. START.
2. Create a student class.
3. Create a function to accept student information.
4. Create a function to display student information.
5. Count the number of students in the database by using a variable count which is a member of the student class.
6. Also display the student information using a static function.
7. Display the % marks obtained using friend function.
8. STOP

# Platform: 64 –bit Open source Linux

**Input:** Student Information : Name, Roll number, Class, division, Date of Birth, Adhar number, Blood group, Contact address, telephone number.

**Output:** Student Database containing Name, Roll number, Class, division, Date of Birth, Adhar number, Blood group, Contact address, telephone number.

**Conclusion:** Hence, learnt to create a class, use static members and create friend function in C++.

**FAQs:**

1. Differentiate between classes and objects.
2. Explain the concept of array of objects.
3. What are the limitations of static members?
4. What are the advantages of using friend function in C++?