OBJECT ORIENTED PROGRAMMING LAB

Experiment-3

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Task:- ***Write a program to find the greatest of two given numbers in two different classes using friend function***

Friend function

A friend function of a class is defined outside that class' scope but it has the right to access all private and protected members of the class. Even though the prototypes for friend functions appear in the class definition, friends are not member functions.

In Short, a friend function once declaired in a class, can use all the members of the class, despite the fact that it is defined outside the class.

For example:-

#Code

```
#include "bits/stdc++.h"

using namespace std;

class one;
class two;

class one {
  int a;
   public:
      friend int largest(one a, two b);
      void input();
};

void one::input(){
   cout << "Enter first Number : ";
   cin >> a;
}

class two {
   int b;
   public:
      friend int largest(one a, two b);
      void input();
};

void two::input(){
   cout << "Enter second Number : ";
   cin >> b;
```

```
}

int largest(one a, two b){
    return (a.a > b.b) ? a.a : b.b ;
}

int main()
{
    one a;
    a.input();
    two b;
    b.input();
    cout<<"larger Number is "<<largest(a,b)<<endl;

    return 0;
}
```

#OUTPUT