

### Practical 3.(d)

**Aim:** Write a C++ program to find Maximum out of Two Numbers using friend function. Note: Here one number is a member of one class and the other number is member of some other class.

**Algorithm:**(i)Start

(ii)class{..};

(iii)Main function

(iv)Print the result

(v)Stop

**Theory:**In this practical,we will see a C++ program to find Maximum out of Two Numbers using friend function.

**Program:**

```
#include <iostream>
```

```
class a;
```

```
class b
```

```
{
```

```
    int number;
```

```
    public:
```

```
    b(int x)
```

```
{
```

```
    number=x;
```

```
}
```

```
void friend greatest(a a1,b b1);
```

```
};
```

```
class a
```

```
{
```

```
int number;
public:
a(int x)
{
    number=x;
}
void friend greatest(a a1,b b1);
};
void greatest(a a1,b b1)
{
    if(a1.number>b1.number)
    {
        std::cout<<"\nNumber in class A is greatest i.e:
"<<a1.number;
    }
    else if(a1.number<b1.number)
    {
        std::cout<<"\nNumber in class B is greatest i.e:
"<<b1.number;
    }
```

```
else
{
    std::cout<<"\nNumber in both classes are equal";
}
}

int main()
{
    std::cout<<"08_Rabin Nadar";
    std::cout<<"\n\n Program to find greatest of two
numbers in two different classes using friend function";
    int num;
    std::cout<<"\n\n Enter number for class A- ";
    std::cin>>num;
    a a1(num);
    std::cout<<"\n Enter number for class B- ";
    std::cin>>num;
    b b1(num);
    greatest(a1,b1);
    std::cout<<"\n";
```

```
    return 0;  
}
```

## Output:

Output

Clear

```
/tmp/6U0tbcETjG.o  
08_Rabin Nadar  
  
Program to find greatest of two numbers in two different classes using  
    friend function  
  
Enter number for class A- 12  
Enter number for class B- 14  
Number in class B is greatest i.e: 14
```

## Conclusion:

We have successfully written the code and executed it.