Practical-10.(b)

Aim: Write a C++ program to get maximum of two number using Class template.

Algorithm:(i)Start

(ii)class{…};

(iii)Main function

(iv)Print the result

(v)Stop

Theory: Templates are the foundation of generic programming,which involves writing code in a way that is independent of any particular type.

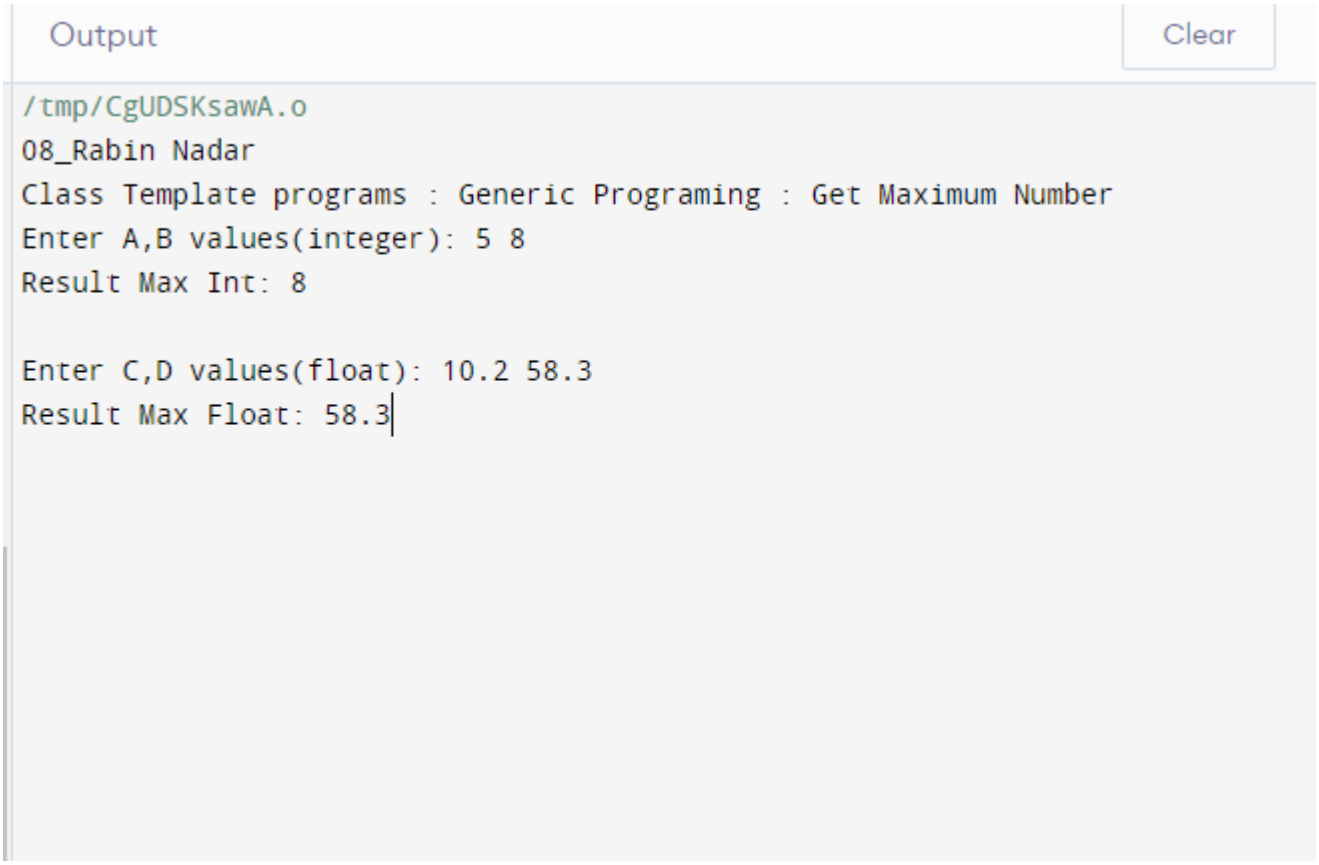
Program:

```
#include <iostream>
#include <stdio.h>
template<class T>
class TClassMax
{
   T x,y;
   public:
   TClassMax()
   {}
```

```
    TClassMax(T first,T second)
    {
        x=first;
        y=second;
    }
    T getMaximum()
    {
        if(x>y)
        return x;
        else
        return y;
    }
};
int main(){
    std::cout<<"08_Rabin Nadar"<<std::endl;
    TClassMax <int> iMax;//(100,75);
    int a,b,i;
    TClassMax <float> fMax;//(90.78,750.98);
    float c,d,j;
    std::cout<<"Class Template programs : Generic
Programing : Get Maximum Number\n";
```

```
    std::cout<<"Enter A,B values(integer): ";
    std::cin>>a>>b;
    iMax=TClassMax<int>(a,b);
    i=iMax.getMaximum();
    std::cout<<"Result Max Int: "<<i;
    std::cout<<"\n\nEnter C,D values(float): ";
    std::cin>>c>>d;
    fMax=TClassMax<float>(c,d);
    j=fMax.getMaximum();
    std::cout<<"Result Max Float: "<<j;
    return 0;
}
```

Output:



Conclusion:

We have successfully written the code and executed it.