```
//NEED OF THE FUNCTION TEMPLATE
#include<iostream.h>
#include<conio.h>
int min(int a,int b)
{
  return (a<b)?a:b;
}
float min(float a,float b)
{
   return (a<b)?a:b;
   }
   char min(char a,char b)
   {
       return (a<b)?a:b;
       }
       int main()
       {
         int x,y;
         float m,n;
         char c1,c2;
         cout<<"\nenter the two integer values";</pre>
         cin>>x>>y;
         cout<<"\nMinimum of two integer value is = "<<min(x,y);</pre>
         cout<<"\nenter the two float values";</pre>
         cin>>m>>n;
```

```
cout<<"\nMinimum of two float value is = "<<min(m,n);</pre>
         cout<<"\nenter two character values";</pre>
         cin>>c1>>c2;
         cout<<"\nMinimum of two character value is = "<<min(c1,c2);</pre>
         getch();
         return 0;
         }
//FUNCTION TEMPLATE
#include<conio.h>
#include<iostream.h>
template<class T>
T min(T a,T b)
{
    return (a<b)?a:b;
    }
    int main()
    {
      int x,y;
         float m,n;
         char c1,c2;
         cout<<"\nenter the two integer values";</pre>
         cin>>x>>y;
         cout<<"\nMinimum of two integer value is = "<<min(x,y);</pre>
         cout<<"\nenter the two float values";</pre>
         cin>>m>>n;
```

```
cout<<"\nMinimum of two float value is = "<<min(m,n);</pre>
         cout<<"\nenter two character values";</pre>
         cin>>c1>>c2;
         cout<<"\nMinimum of two character value is = "<<min(c1,c2);</pre>
         getch();
         return 0;
         }
//SWAP TWO NUMBERS USING FUNCTION TEMPLATE
#include<iostream.h>
#include<conio.h>
template<class T>
void swap(T &m,T &n)
{
  T temp;
  temp=m;
  m=n;
  n=temp;
  }
  int main()
  {
    int a,b;
    cout<<"enter two integer values";</pre>
    cin>>a>>b;
    swap(a,b); //call function template for int
    cout<<"a = "<<a<<" b= "<<b;
```

```
float x,y;
    cout<<"\nenter two float values";</pre>
    cin>>x>>y;
    swap(x,y);//call function template for float
    cout<<"x ="<<x<" y= "<<y;
    char c1,c2;
    cout<<"\nenter two charactter values ";</pre>
    cin>>c1>>c2;
    swap(c1,c2); //call function template for character
    cout<<"c1 = "<<c1<<" C2= "<<c2;
    getch();
    return 0;
    }
          //PROGRAM TO DEMONSTRATE THE USE OF THE CLASS TEMPLATE
#include <iostream.h>
#include<conio.h>
template <class T>
class mypair
```

T a, b;

```
public:
  mypair (T first, T second)
   {
      a=first;
      b=second;
      }
 T getmax ();
};
template <class T>
T mypair<T>::getmax ()
{
T retval;
 retval = a>b? a : b;
 return retval;
}
int main ()
{
 mypair <int> myobject (100, 75);
 mypair <float> myobject1(100.25,100.75);
 cout << myobject.getmax();</pre>
//mypair <float> myobject(100.56,100.34);
 cout<<myobject1.getmax();</pre>
```

```
getch();
return 0;
}
FIND MINIMUM OF TWO NUMBERS USING CLASS TEMPLATE
#include<iostream.h>
#include<conio.h>
template <class T>
class mix
{
Ta,b;
public:
mix(Tx, Ty)
{
a=x;
b=y;
}
T max()
{
return (a>b?a:b);
}
};
main()
{
mix<int> obj(10,20);
```

```
cout<<"max value is"<<obj.max();
getch();
}</pre>
```