Assignment no. 8

```
#include<iostream>
using namespace std;
class triangle
  double height;
  double base;
  public:
  triangle()
                //Default constructor
        height=0;
        base=0;
        triangle(double a,double b)
                                          //parameter constructor
        height=a;
        base=b;
        triangle(triangle &t)
                                 // copy constructor
        height=t.height;
        base=t.base;
        }
        float area()
        return (((height*base)/2));
        ~triangle()
        cout<<"Object Destroyed"<<endl;</pre>
};
int main()
        triangle t1(10,6),t2(5,6),t3(t1);
        float a,b,c;
        a=t1.area();
        b=t2.area();
        c=t3.area();
        cout<<"Area of triangle 1:"<<a<<endl;
        cout << "Area of triangle 2:" << b << endl;
        cout << "Area of triangle 3:" << c << endl;
        triangle t4(t1);
```

```
float d=t4.area();
  cout<<"Area of triangle 4 :"<<d<<endl;
}
  cout<<"Entering main"<<endl;
  return 0;
}</pre>
```

Output:

```
pc@pc-Precision-Tower-3420:~/Desktop$ g++ p123u.cpp
pc@pc-Precision-Tower-3420:~/Desktop$ ./a.out
Area of triangle 1:30
Area of triangle 2:15
Area of triangle 3:30
Area of triangle 4:30
Object Destroyed
Entering main
Object Destroyed
Object Destroyed
Object Destroyed
pc@pc-Precision-Tower-3420:~/Desktop$
```