

## OOP ASSIGNMENT-05

Code:

```
#include<iostream>
#include<string>
using namespace std;
class shape
{
    public:
        double a,b;
        void get(){
            cout<<"Enter the value of a and b:"<<endl;
            cin>>a>>b;

        }
        virtual void AreaCalculated()=0;
};
class triangle : public shape
{
    public :
        void AreaCalculated(){
            cout<<"Area of Triangle = "<<0.5*a*b<<endl;
        }
};
class rectangle :public shape
{
    public :
        void AreaCalculated(){
            cout<<"Area of Rectangle = "<<a*b<<endl;
        }
};
int main(){
    triangle t;
    rectangle r;
    shape *st=&t;
```

```
st->get();
st->AreaCalculated();

shape *sr=&r;
sr->get();
sr->AreaCalculated();
return 0;
}
```

Output:

Enter the value of a and b:

12 12

Area of Triangle = 72

Enter the value of a and b:

12 12

Area of Rectangle = 144

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(program exited with code: 0)

Press return to continue