

Assignment NO - 4

Ref. No.: 34

Date: / /

Title:-

Design a base class shape with two double type values and member functions to input the data and compute_area() for calculating area of shape. Derive two classes: triangle and rectangle. Make compute_area() as abstract function and redefine this function in the derived class to suit their requirement. Write a program that accepts dimension of triangle/rectangle and display & calculate area. Implement dynamic binding for given case study.

Theory

• Dynamic Binding.

In Dynamic Binding, the method call is bonded to the method body at runtime. This is also known as late binding. This is done using instance methods.

Connecting a method call to the method body is known as binding.

Example.

```
class Animal {  
    void eat ()  
    {  
        System.out.println("animal is eating");  
    }  
class Dog extends Animal {  
    void eat ()  
    {  
        System.out.println("dog is eating");  
    }  
    public static void main (String arg[]) {  
        Animal a = new Dog();  
        a.eat();  
    }  
}
```

conclusion:

Hence, we have successfully implemented the program of dynamic binding.