

# Program-1

```
class Shape
{
    double x;
    Shape(double a)
    {
        x=a;
    }
}
class Rectangle extends Shape
{
    double y;
    Rectangle(double a,double b)
    {
        super(a);
        y=b;
    }
    void area(double x,double y)
    {
        System.out.println("Area of rectangle:"+
        (x*y));
    }
}
class Square extends Shape
{
    Square(double a)
    {
```

```

    super(a);
    }
void area(double x)
{
    System.out.println("Area of square:"+(x*x));
}
}
class Circle extends Shape
{
    Circle(double a)
    {
        super(a);
    }
void area(double x)
{
    System.out.println("Area of
circle:"+(3.14*x*x));
}
}

```

```
class Area
{
public static void main(String ar[])
{
Rectangle r=new Rectangle(4,5);
Square s=new Square(4);
Circle c=new Circle(5);
Shape ref;
ref=r;
r.area(4,5);
ref=s;
s.area(4);
ref=c;
c.area(5);
}
```

Output:-

Area of rectangle:20.0

Area of square:16.0

Area of circle:78.5