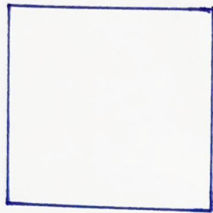


Example:- 1 Polymorphism:-

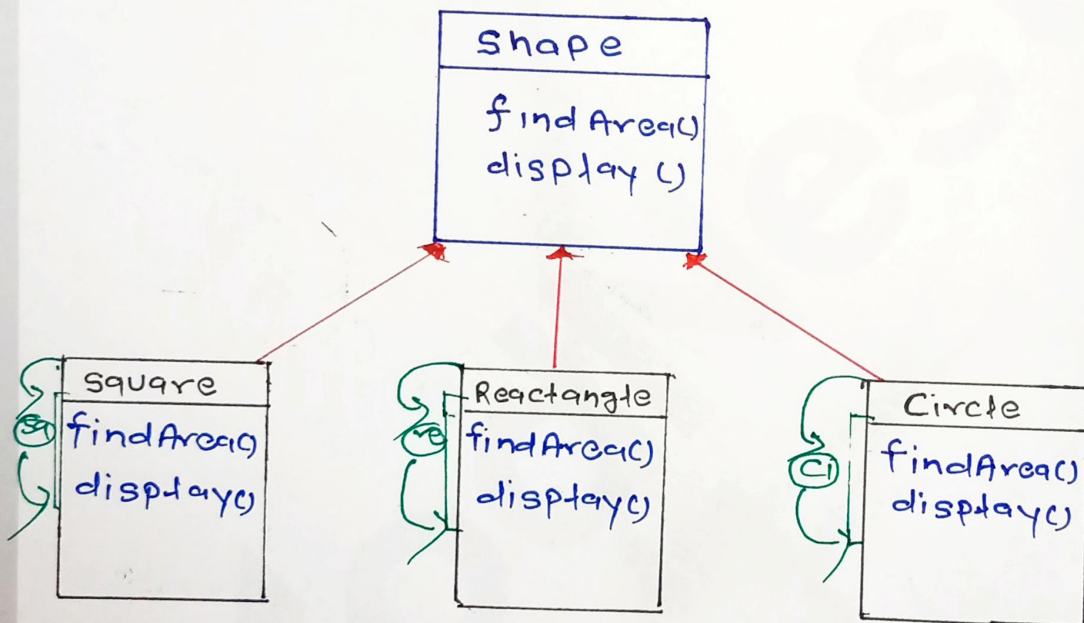
Square



Reactangle



Circle



```
Class Shape
```

```
{
```

```
void findArea ()
```

```
{
```

```
System.out.println ("Print area of the shape");
```

```
}
```

```
void display ()
```

```
{
```

```
System.out.println ("Print name of the shape");
```

```
}
```

```
}
```



```
class Square extends Shape
```

```
{
```

```
void findArea()
```

```
{
```

```
int e = 10;
```

```
int ar = e * e;
```

```
System.out.println("Area of square = " + ar);
```

```
}
```

```
void display()
```

```
{
```

```
System.out.println("This shape is a square");
```

```
}
```

```
}
```

```
class Rectangle extends Shape
```

```
{
```

```
void findArea()
```

```
{
```

```
int l = 10;
```

```
int b = 5;
```

```
int ar = l * b;
```

```
System.out.println("Area of rectangle = " + ar);
```

```
}
```

```
void display()
```

```
{
```

```
System.out.println("This shape is a rectangle");
```

```
}
```

```
}
```



```
class Circle extends Shape
{
    void findArea()
    {
        int r = 10;
        double ar = 3.14 * r * r;
        System.out.println("Area of circle =" + ar);
    }
    void display()
    {
        System.out.println("This shape is a circle");
    }
}
```

```
class ShapeApp
{
    public static void main (String[] args)
    {
```

```
        Square sq = new Square();
        Rectangle re = new Rectangle();
        Circle ci = new Circle();
```

```
        sq.findArea();
        sq.display();
        re.findArea();
        re.display();
        ci.findArea();
        ci.display();
```

```
    }
}
```

