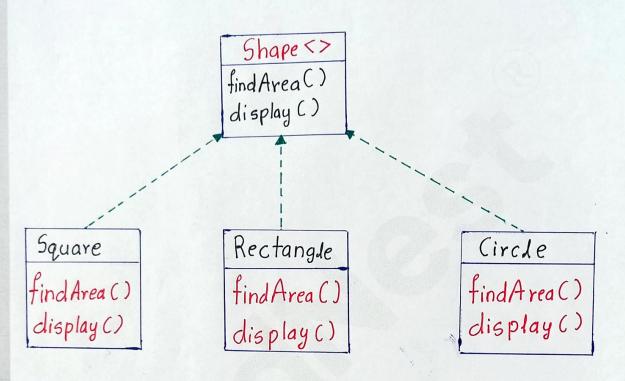
Achieving Abstraction Using Interfaces.



```
Public interface Shape
   void find Area ();
   void display ();
```



```
public class Square implements Shape &
        public void findArea()
              int e=10;
              int ar= e * e;
             System.out. println ("Area of square ="+ ar);
         public void display ()
             System. out. print In ("This shape is a square");
       class Rectangle implements Shape &
public
            public void findArea ()
               int b= 5;
               int ar= 1 * b;
               System. out. println ("Area of rectangle ="+ar);
```

```
public void display ()

g

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

g
```

```
public class Circle implements Shape of

public void find Area ()

int r=10;

double ar = 3.14 * r * r;

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

public void display()

fublic void display()

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

g
```

```
public class ShapeApp &
   public static void main (String [] args)
       Square sq = new Square ();
       Rectangle re = new Rectangle ();
       Circle ci = new Circle ();
       fun (59);
       fun (re);
    2 fun (ci);
    public static void fun (Shape s) &
              S-find Area ();
              s. display ();
```



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Output

Area of square = 100
This shape is a square
Area of rectangle = 50
This shape is a rectangle
Area of circle = 314.0
This shape is a circle

For achieving abstraction in java we can go for abstract classes as well as interfaces both are going to promote polymorphism.