Assignment - 2.

JAVA

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1. Write a program to illustrate polymorphism. 3 classes → Circle, square triangle. Shape interface should contain 3 methods.

Ans.

```
Class Shape {
        public void render () {
            System .out. println ("Rendering Shape ...");
        }
    }

Class Square extends Shape {.
        public void render () {
            System. out. println ("Rendering Square ...")
        }
    }
Class Circle extends Shape {
        public void render() {
            System.out.println("Rendering Circle...");
        }
    }
Class Triangle extends Shape {
        public void render() {
```

```
        System.out.println("Rendering Triangle ...");
    }
}

class Main {
    public static void main(String[] args) {
        Square s1 = new Square();
        s1.render();

        Circle c1 = new Circle();
        c1.render();

        Triangle t1 = new Triangle();
        t1.render();
    }
}
```

2. Program to illustrate polymorphism. Sree Roshan Nair
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Parent has 3 methods → ① TV()

Overload ← ② radio (int button, String Playlist)

Override ← ③ Phone (int phno, double price, String ptype)

Ans.

```
Class Parent {

    Static boolean tv()
        {
            System.out.println("TV Class is rendered");
            return true;
        }

    Static boolean radio (int button, String playlist)
        {
            System.out.println(button + String playlist)
            return true.
        }

    Static boolean phone (int phno, double price, String
                                                playlist)
        {
            System.out.println(phno + "\t" + playlist + "\t" +
                price);
            return true;
        }
```

```
public static void main (String args[])
{
    System.out.println (" TV method is called");
    System.out.println (tv());
    System.out.println (" Radio method is called")
    System.out.println (Radio (4, "Album"));
    System.out.print (" Phone method is called");
    System.out.print (phone (4, 20, 3, "Album"));
}
}
```