

S.No: 12

Exp. Name: **write a java program to prevent inheritance using abstract class.**

Date:

**Aim:**

write a java program to prevent inheritance using abstract class.

- Create an abstract class **Shape**
- Create a class **Rectangle** which extends the class **Shape**
- Class Rectangle contains a method **draw** which prints **drawing rectangle**
- Create another class **circle1** which extends **Shape**
- Class circle1 contains a method **draw** which prints **drawing circle**
- Create a main class **TestAbstraction1**
- Create object for the class circle1 and called the method draw

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**Source Code:**

TestAbstraction1.java

```
abstract class shape{
    abstract void draw(); }

class Rectangle extends shape{
    void draw() {
        System.out.println("drawing rectangle");
    }
}

class Circle1 extends shape{
    void draw() {
        System.out.println("drawing circle"); }}
class TestAbstraction1{ public static void main(String args[])
{
    shape s=new Circle1();
    s.draw();  }
}
```

**Execution Results** - All test cases have succeeded!**Test Case - 1****User Output**

drawing circle