



NAME – RAJDEEP JAISWAL DATE – 29 NOV 2021

BRANCH – BTECH CSE SEC = 608 - A

UID -20BCS2761 Subject – JAVA FINAL

AIM – Write a program to create a class named shape. It should contain 2 methods- draw() and erase() which should print "Drawing Shape" and "Erasing Shape" respectively.

For this class we have three sub classes- Circle, Triangle and Square and each class override the parent class functions- draw () and erase ().

The draw() method should print "Drawing Circle", "Drawing Triangle", "Drawing Square" respectively.

The erase() method should print "Erasing Circle", "Erasing Triangle", "Erasing Square" respectively.

Create objects of Circle, Triangle and Square in the following way and observe the polymorphic nature of the class by calling draw() and erase() method using each object.

Shape c=new Circle();

Shape t=new Triangle();

Shape s=new Square();

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CODE IN TEXT -

```
class Shape {
   void draw() {
       System.out.println("Drawing Shape");
   }
   void erase() {
       System.out.println("Erasing Shape");
   }
} class Circle extends Shape {
       @Override
```







```
System.out.println("Erasing Circle");
void erase() { System.out.println("Erasing Triangle");
class Square extends Shape { @Override
   System.out.println("Drawing Square");
   System.out.println("Erasing Square");
       Shape c=new Circle();
       Shape s=new Square();
```







```
c.draw();
c.erase();
t.draw();
t.erase();
s.draw();
s.erase();
```

CODE IN COMPILER -

```
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