/\*File : Abstract.java

\*Description : Java program to create an abstract class(Exercise to understand polymorphism)

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PROGRAM

package abs;

public class Abstract {

public static void main(String [] args) {

Rectangle rectangle = new Rectangle();

Triangle triangle = new Triangle();

Hexagon hexagon = new Hexagon();

rectangle.numberofSides();

triangle.numberofSides();

hexagon.numberofSides();

}

}

abstract class Shape{

public abstract void numberofSides();

}

class Rectangle extends Shape{

public void numberofSides() {

System.out.println("Rectangle has 4 sides");

}

}

class Triangle extends Shape{

public void numberofSides() {

System.out.println("Triangle has 3 sides");

}

}

class Hexagon extends Shape{

public void numberofSides() {

System.out.println("Hexagon has 6 sides");

}

}

OUTPUT

Rectangle has 4 sides

Triangle has 3 sides

Hexagon has 6 sides