**abstract class Shape**

**{**

**abstract void numberOfSides();**

**}**

**class Rectangle extends Shape**

**{**

**void numberOfSides()**

**{**

**System.out.print("Number of Sides = 4\n");**

**}**

**}**

**class Triangle extends Shape**

**{**

**void numberOfSides()**

**{**

**System.out.print("Number of Sides = 3\n");**

**}**

**}**

**class Hexagon extends Shape**

**{**

**void numberOfSides()**

**{**

**System.out.print("Number of Sides = 6\n");**

**}**

**}**

**public class shape**

**{**

**public static void main(String args[])**

**{**

**Rectangle rec=new Rectangle();**

**Triangle tri=new Triangle();**

**Hexagon hex=new Hexagon();**

**Shape shaperef;**

**System.out.print("-->RECTANGLE\n");**

**shaperef=rec;**

**shaperef.numberOfSides();**

**System.out.print("-->TRIANGLE\n");**

**shaperef=tri;**

**shaperef.numberOfSides();**

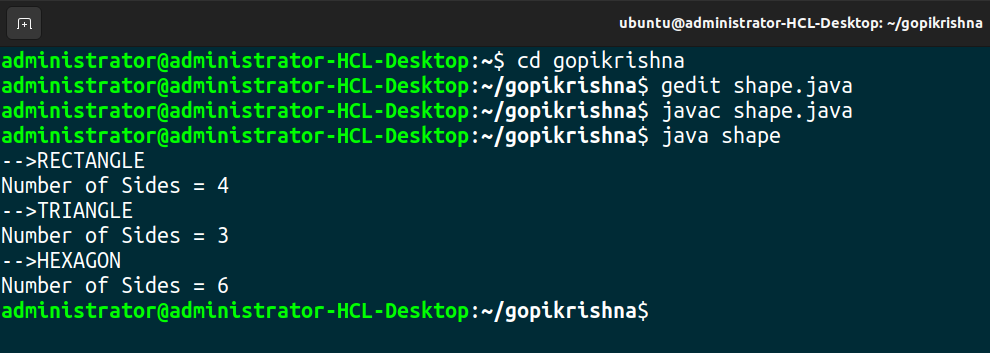
**System.out.print("-->HEXAGON\n");**

**shaperef=hex;**

**shaperef.numberOfSides();**

**}**

**}**

****