```
{ LAB PROGRAM 4}
import jova. util. Scanner;
abstract class Shape {
     int base, height,
     shape (int a, int 6) {
         base = a;
         height = b;
      shape (int c) {
       base = c;
        height = C;
      abstrace void prineArea(),
 class Rectangle extends snape {
    Recongre (int a, intb) {
        super (a.b);
        System out. Print (" area of rectangle: " + (base * reight));
     void print Area () {
     ŀ
 3
 class triangle everado shape {
    Triangle (inta, int 6) {
          super (a,b);
          systemous. print ("ana of triangle: " + (bose + height (3));
      loid print Areal) &
      circle extends shape {
     عمد) على عادن
        super (a);
        System.out.print ("are of circle: "+ (3.14 * base * base);
      void printArea () }
  crans shape Demo {
       passic static void main (spring[] ords) {
            geanner sc = new Scanner (system. in);
           int billi choice;
```

```
system out print ("In Enter choice 1. Restangle 2. briangle 3. circle
                               Le . evit: ");
 Choice = sc. nextSatis;
 switch (choice) {
    case 1: system.out.print ("Entor base: ");
             b: Sc. neutine ();
             System. out. print (" Enter height:");
             h = sc. next Int ();
             Rectangle r = new Rectangle (b,b);
             r. print Area ();
             preak;
     case 2: system.out.print ("Enter base: ");
               b = Sc. next Int ();
               system. out. print ("Enter height:");
               h= sc. neutsut ();
               Triangle t= new Triangle (b,h);
               t. print Area (1;
               break;
       Case 3: System.out. print ("Enter radius");
                b = Sc. next [At()]
               circle &i = new circle(b);
                ci. print Area ();
                 break,
        case 4: System. exit (0);
    4
```