named shape that contains two integers and on empty method named PerintAra (). Provide thorse closes of named Richargle, Towargle and circle such that each one of the Classes extend the Glove shape. Fach one of the classes contain only the method point soul) that prints the area of the given shape. import ina. utiliotini lita. Log motore abstract class shape & double andi Class abstrace & public abettract void paintanea (); class triangle extends shape {
Void getdate (double X, double Y) { a = x', b = y ; } we at every void pointagea (): () il so and of others grant to my entry done to man I'll good double area = 0.5 tatb: System. out. pointln ["Area of triangle = "tarea); Class rectangle extends shape f Void getdata (double X, double Y) { a = x ; b=y il & love 12 - he what Void pointareally) or , se = & showing I doubt area = atbild. [] differen System. out. point en ("Anca of rectory le = "taxea);

pevelop a Java perogram to creek an abstract class

```
Class circle extends shape ?
Void get a data (double x)
    Void parint area ()
      double area = 3.142 tata;
     5 y Hem. out. pointln ("Area of circle = "tarea);
  Clars abstacea & public estatic void main (String arys)
   Scanner Sc=new Scanner (System. In);
    rectangle r=new rectangle ():
     triangle += new tonangle();
      circle (znere airclet);
   9.0. P ["I. Area of nectourle \n2. Area of Foringe \n3.
          Aven of aincle In Enter your choice");
         ch = Se. next Int ()
    Switch (ch)
             More steelingle extends whope !
  Cose 1: System out. point on ("Enter legeth and breath:"
        double it = Sc, next Double ();
       Moulde b = sc. next robe ();
         Vigetdata (1.6);
          J. parintarea ();
```

break;

```
case 2: System. out. point In [ "Enter base and height: ");
        double b1 = Sc. nextbouble ();
       touble bi = Sc next Double();
           if if the date (b), b);
           t. peint area();
           break;
  (ase 3: Sop ["Enter nadius;");
         double 81=Sc. nextbook();
           c. getdata (r1);
           (. pointarea ();
      default: Bystem S.D.P ("Involid input");
output
1. Area of rectangle
2. Area of towardle.
3. Ava of ande.
                               Enter your chaice
Enter your choice
                               Enter base and height.
Enter leigh and breadth
                                Area of teianghe = 12.0.
Area of rectargle = 12.0
```

