```
Program 4
  Import java. util. Scanner;
  emport java-lang. Math 3
 abstract class Shape
    Scanner in = new Scanner (System.in);
abstract void print drea ();
 class rectangle extends Shape
   siclangle (
   Egystem. out. printin ("Enter the dimensions of rectangle length, breadth
     a = in. nentInt();
     b = in. nent Int();
    void printdrea ()
  E area-rect = anb;
     System.out. println ("The area of rectangle is: "+area-rect);
class traingle extends Shape
    double ascartri;
    traingle!)
```

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System. out. println ("lenter the dimensions of traingle bax and height");
    a = in nentInt();
       = in. nent Int();
   boid grintAreac)
   d area-tri = 0.5 * a * b;
System. ord. frintln ("The area of draingle is:"+area-tri);
class circle entends shape
& double cirareal);
   System. out. frintln la Enter the radius");

a = in. nent Int();
  void juintArea ()
     cii-area = 8.14*a*a;
Systemoutopientln (" The area of circle is: "+cii-area);
 class Figure
 L' public statio void main (strong args[])
         rectangle r = new reelangle ();
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reprint dream; traingle t = new traingle!);

t. printAreal);

circle c = new circle!; intribus: c. frintAral); Mark Intern 3 printareaco LIN = O. STANG; some out friently ("The are of traingle is: "+ and this); cl incle entends shape 1 e cia areals: Enn. out frintle ("Enter the radius"); in new Printer of withran of colds is " secil ancals - with = 3.14x 0.40 ; ion-sect-prently (\* 260 d