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2/1/24
        - lfAz-1-24 lab 4
    Develop a Java program to create an abstract class
    named Shape that contains two integers and an
    Empty method name printAreaco
    Provide three classes named Rectangle, Triangle and
   circu such that each one of the classes named
   Rectargle, Triangle and circle each one of the
  classes contain only the method pointAsee() that
   prints the Area of the given shape.
  Program .
  impost java, util. Sanner;
 class Inputscanners
   S- new Scarner s;
   Inputscannon ()}
         S= new Scanner (system. 9n); 9
 abstract class shape Ectends Inputscannon {
   double a ;
   double b:
  adstract word getDetails ();
 abstract void print Area (); 9
Class Rectangle extends shape {
     Void getDetails() }
      System. out pointle ("Entor length and breadth");
      a=S. nextDouble();
      b= s. nectDouble (); y
 void Print Area () }
       System. out. prentln ( area of Rectangle = "+ (a+b)),
   9 9
```

```
class Triangle extends shape &
    void get Details () 5
         System, out potatine ("Enrer a and b");
      a = S. noctPouble ();
      b= s. next Double (); &
    void point Area () }
        System. out. pointle ("Area of triangle = "+ (a*b)/2));
    3 3
 class circle Extends shape ?
   roid get Details () }
      system. out-printing" Enter radius");
     a = S. nect Double (); &
   void PrintAneal) ?
          Syskm. out println ("Area of viole = "+ (3.14 *a*a)).
  4 4
class Abstroct Main &
     Public static void main (Storng[] asgs)}
     Rectangle 8= new Rectangle ();
     Triangle t= new Trangle ();
     ciscle c = new Circle ();
     r. gct Details ();
     8 - print Area ();
     t. get Details();
    t. print Area();
    c. get petails();
    C. get point Area (); & &
  System out println (" Name = santhach & USN = 2023 BMS025864)
  3 3
```

output 2/1 Enter length and breadth -5 Area of Rectangle =40.0 Enter a & b da Area of Triangle = 12.0 Enro radius clo Area of ciacle = 12.56. Name = Santhosh S USN = 2023 BMS625 86 0