Lab Prgm-4

Q) Shapes & their area display.

Aⁿˢ: import java.util.*;
abstract class Shape
{   int a;
    int b;
    abstract void printArea();
}

class Rectangle extends shape
{   Rectangle (int x, int y)
    {   a=x;
        b=y;
    }

    void printArea()
    { System.out.println(" Area is " + (a*b)); }
}

class Triangle extends shape
{   Triangle (int x, int y)
    {   a = x;
        b = y;
    }

    void printArea()
    { System.out.println(" Area is " + (a*b*0.5));
}

class Circle extends shape
{   Circle (int x)
    {   a=x;
    }

PTO →

```java
        void printArea()
        { System.out.println(" Area is "+ (a*a* 3.14)); }
}


class lab5
{ public static void main(String ss[])
    { int l, b, ba, h, ra;
        Scanner sc= new scanner (System.in);
        System.out.println(" enter length & breadth of rect");
        l = sc.next Int();
        b = sc.next Int();
        Rectangle  r = new Rectangle (l, b);
        r.printArea();


        System.out.println("enter base & ht. of triangle");
        ba = sc.next Int();
        h = sc.next Int();
        Triangle  t = new Triangle (ba, h);
        t.printArea();


        System.out.println(" enter radius of circle");
        ra= sc.next Int();
        Circle c= new Circle(ra);
        c.printArea();
    }
}
```

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