1BM19CS024

LAB-4 Abstract using;

```
import java.util.Scanner;

abstract class Shape {
    int a, b;
    abstract void printArea();
    public Shape(int a, int b) {
        this.a = a;
        this.b = b;
    }
}

class Rectangle extends Shape
{
    public Rectangle(int a, int b)
    {
        super(a,b);
    }
    void printArea()
    {
        System.out.println("area of rectangle is " +a*b);
    }
}

class triangle extends Shape
{
    public Triangle(int a, int b)
    {
        super(a,b);
    }
```

```
void printArea() {
    System.out.println("area of triangle is " + a*b/2);
    {

class Circle extends Shape
{
    public Circle(int a, int b)
    { super(a,b); }
    void printArea()
    {
    System.out.println("area of circle is " + 3.142*a*b);
    {
{

Class Main {
    public static void main(String args[]) {
    Scanner ss = new Scanner(System.in);
    System.out.println("length of the rectangle ");
    int lr = ss.nextInt();
    System.out.println("breadth of rectangle ");
    int lb = ss.nextInt();
    System.out.println("base of triangle");
    int bt = ss.nextInt();
    System.out.println("height of triangle");
    int ht = ss.nextInt();
    System.out.println("Radius of circle");
    int cr = ss.nextInt();
```

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```
Rectangle r = new Rectangle (lt , lbo);
r.printArea();
Triangle t = new Triangle (bt, bt);
t.printArea();
Circle c = new Circle (cr, cr);
c.printArea();
{
{
```