```
Command Prompt                                                                    —    □    ×

Microsoft Windows [Version 10.0.19042.746]
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C:\Users\Vidhu>cd desktop

C:\Users\Vidhu\Desktop>cd java

C:\Users\Vidhu\Desktop\java>set path="C:\Program Files\Java\jdk1.8.0_261\bin"

C:\Users\Vidhu\Desktop\java>javac shapemain.java

C:\Users\Vidhu\Desktop\java>java shapemain
Enter length and breadth of rectangle: 2 3
The area of rectangle is: 6

Enter base and height of triangle: 4 6
The area of triangle is: 12

Enter radius of circle: 10
The area of circle is: 314.0


C:\Users\Vidhu\Desktop\java>_
```

```java
import java.util.*;
abstract class Shape {
    int d1,d2;
    Scanner input = new Scanner(System.in);
    abstract void printArea();
}

class Rectangle extends Shape {
    void printArea() {
        System.out.print("Enter length and breadth of rectangle: ");
        d1 = input.nextInt();
        d2 = input.nextInt();
        System.out.println("The area of Rectangle is: " + d1 * d2+"\n");
    }
}

class Triangle extends Shape {
    void printArea() {
        System.out.print("Enter Base And Height of triangle: ");
        d1 = input.nextInt();
        d2 = input.nextInt();
        System.out.println("The area of Triangle is: " + (d1*d2) / 2+"\n");
    }
}

class Circle extends Shape {
    void printArea() {
        System.out.print("Enter Radius: ");
        d1 = input.nextInt();
        System.out.println("The area of Circle is: " + 3.14f * d1 * d1+"\n");
    }
}

public class shapemain {
    public static void main(String[] args) {
        Rectangle rec = new Rectangle();
        rec.printArea();

        Triangle tri = new Triangle();
        tri.printArea();

        Circle cir = new Circle();
        cir.printArea();
    }
}
```