

Q1. Find Simple Interest and Total Amount.

**Solution:-**

```
import java.util.Scanner;

public class Interest
{
    public static void main(String args[])
    {
        Scanner s1 = new Scanner(System.in);

        System.out.print("Enter the principal: ");

        float p = s1.nextFloat();

        System.out.print("Enter the Rate of interest: ");

        float r = s1.nextFloat();

        System.out.print("Enter the time period: ");

        float t = s1.nextFloat();

        float si;

        si = (p*t*r)/100;

        System.out.println("Simple interest is: " +si);

        float total;

        total=(si+p);

        System.out.println("Total amount is: " +total);

    }
}
```

**Output:-**

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**C:\Users\user\Documents\Java Batch>javac Interest.java**

C:\Users\user\Documents\Java Batch>java Interest

Enter the principal: 100

Enter the Rate of interest: 10

Enter the time period: 2

Simple interest is: 20.0

Total amount is: 120.0

C:\Users\user\Documents\Java Batch>

Q2:- Find area of Triangle,Circle and Rectangle.

Solution:-

Triangle:-

```
import java.util.Scanner;

class Triangle
{
    public static void main(String args[])
    {
        Scanner s1 = new Scanner(System.in);
        System.out.println("Enter the base of triangle.");
        double b=s1.nextDouble();
        System.out.println("Enter the height of triangle.");
        double h=s1.nextDouble();
        double area;
        area=(0.5*b*h);
        System.out.println("Area of triangle is:" +area);
    }
}
```

### Output:-

C:\Users\user\Documents\Java Batch>javac Triangle.java

C:\Users\user\Documents\Java Batch>java Triangle

Enter the base of triangle.

5

Enter the height of triangle.

10

Area of triangle is:25.0

C:\Users\user\Documents\Java Batch>

### Circle:-

```
import java.util.Scanner;

public class Circle
{
    public static void main(String args[])
    {
        Scanner s1 = new Scanner(System.in);
        System.out.print("Enter the radius of the circle: ");
        double r=s1.nextDouble();
        double area;
        area=(3.14*r*r);
        System.out.println("Area of the circle is: " +area);
    }
}
```

### **Output:-**

Microsoft Windows [Version 10.0.19043.1466]

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C:\Users\user\Documents\Java\_Batch>javac Circle.java

C:\Users\user\Documents\Java\_Batch>java Circle

Enter the radius of the circle: 3

Area of the circle is: 28.259999999999998

C:\Users\user\Documents\Java\_Batch>

### **Rectangle:-**

**import java.util.Scanner;**

**public class Rectangle**

**{**

**public static void main(String args[])**

**{**

**Scanner s1 = new Scanner(System.in);**

**System.out.println("Enter the length of rectangle.");**

**float l=s1.nextFloat();**

**System.out.println("Enter the breadth of rectangle.");**

**float b=s1.nextFloat();**

**float area;**

**area=(l\*b);**

**System.out.println("Area of the rectangle is:" +area);**

**}**

**}**

**Output:-**

Microsoft Windows [Version 10.0.19043.1466]

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C:\Users\user\Documents\Java\_Batch>javac Rectangle.java

C:\Users\user\Documents\Java\_Batch>java Rectangle

Enter the length of rectangle.

5

Enter the breadth of rectangle.

4

Area of the rectangle is:20.0

C:\Users\user\Documents\Java\_Batch>