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Program 1:

Using Scanner class find simple rate of interest

```
import java.util.Scanner;
public class SimpleInterest {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        float p, r, t;

        Scanner s = new Scanner(System.in);

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

        p = s.nextFloat();

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

        r = s.nextFloat();

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

        t = s.nextFloat();

        float si;

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

        System.out.print("The Simple Interest is : " + si);
    }
}
```

Output:

```
Enter the Principal : 400
Enter the Rate of interest : 5
Enter the Time period : 7
The Simple Interest is : 140.0
```

Program-2

Find area of triangle using Scanner class method

```
import java.util.Scanner;
public class AreaOfTriangle {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner s = new Scanner(System.in);

        System.out.println("Enter the width of the Triangle:");
        double b = s.nextDouble();
```

```

        System.out.println("Enter the height of the Triangle:");
        double h= s.nextDouble();

        //Area = (width*height)/2
        double area=(b*h)/2;
        System.out.println("Area of Triangle is: " + area);
    }
}

```

Output:

```

Enter the width of the Triangle:
5
Enter the height of the Triangle:
6
Area of Triangle is: 15.0

```

Program-3

Find addition, subtraction, division, multiplication using scanner class method

```

import java.util.Scanner;
public class calculation {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int m, n, opt, add, sub, mul;

        double div;

        Scanner s = new Scanner(System.in);

        System.out.print("Enter first number:");

        m = s.nextInt();

        System.out.print("Enter second number:");

        n = s.nextInt();

        while(true)
        {

            System.out.println("Enter 1 for addition");

            System.out.println("Enter 2 for subtraction");

            System.out.println("Enter 3 for multiplication");

            System.out.println("Enter 4 for division");

            System.out.println("Enter 5 to Exit");

            opt = s.nextInt();

```

```
switch(opt)
{
    case 1:
        add = m + n;
        System.out.println("Result:"+add);
        break;

    case 2:
        sub = m - n;
        System.out.println("Result:"+sub);
        break;

    case 3:
        mul = m * n;
        System.out.println("Result:"+mul);
        break;

    case 4:
        div = (double)m / n;
        System.out.println("Result:"+div);
        break;

    case 5:
        System.exit(0);
}
}
```

Output:

```
Enter first number:4
Enter second number:5
Enter 1 for addition
Enter 2 for subtraction
Enter 3 for multiplication
Enter 4 for division
Enter 5 to Exit
```

1

```
Result:9
Enter 1 for addition
Enter 2 for subtraction
Enter 3 for multiplication
Enter 4 for division
Enter 5 to Exit
```

2

```
Result:-1
Enter 1 for addition
Enter 2 for subtraction
Enter 3 for multiplication
Enter 4 for division
Enter 5 to Exit
```

3

```
Result:20
Enter 1 for addition
Enter 2 for subtraction
Enter 3 for multiplication
Enter 4 for division
Enter 5 to Exit
```

4

```
Result:0.8
Enter 1 for addition
Enter 2 for subtraction
Enter 3 for multiplication
Enter 4 for division
Enter 5 to Exit
```

Program-4:

Find square root and cube using scanner class

```
import java.util.Scanner;
public class SqareCube {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        int num;

        System.out.print("Enter an integer number: ");
        num = sc.nextInt();

        System.out.println("Square of " + num + " is: " + Math.pow(num,
2));
        System.out.println("Cube of " + num + " is: " + Math.pow(num, 3));
    }
}
```

```

        System.out.println("Square Root of " + num + " is: " +
Math.sqrt(num));
    }
}

```

Output:

```

Enter an integer number: 5
Square of 5 is: 25.0
Cube of 5 is: 125.0
Square Root of 5 is: 2.23606797749979

```

Program-5

Find positive and negative number using Scanner class

```

import java.util.Scanner;
public class PsitiveNegative {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n;

        Scanner s = new Scanner(System.in);

        System.out.print("Enter the number you want to check:");

        n = s.nextInt();

        if(n > 0)
        {
            System.out.println("The given number "+n+" is Positive");
        }

        else if(n < 0)
        {
            System.out.println("The given number "+n+" is Negative");
        }

        else
        {
            System.out.println("The given number "+n+" is neither Positive nor
Negative ");
        }
    }
}

```

```
}
```

Output:

Enter the number you want to check: -78
The given number -78 is Negative

Program-6

Swapping two numbers using scanner class

```
import java.util.Scanner;

public class SwapUsingScanner {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int c;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter first number");
        int a=sc.nextInt();
        System.out.println("Enter second number");
        int b=sc.nextInt();
        //int a=200,b=100,c;
        System.out.println("-----Before swap-----");
        System.out.println("a="+a);
        System.out.println("b="+b);
        c=a;
        a=b;
        b=c;

        System.out.println("-----After swap-----");
        System.out.println("a="+a);
        System.out.println("b="+b);
    }
}
```

Output:

Enter first number
45
Enter second number
67
-----Before swap-----
a=45
b=67
-----After swap-----
a=67
b=45