1: Write a java program using Scanner class find simple rate of interest using method

-->

```
package yasin;
  import java.util.Scanner;
    public class Assignment_4
        {

                public static void main(String[] args)throws Exception
                    {

                                Scanner sc=new Scanner(System.in);
                                System.out.println("Enter Principal Amount: ");
                                      double principal = sc.nextDouble();
                                System.out.println("Enter Time (years) ");
                                      double time = sc.nextDouble();
                                 System.out.println("Enter Rate per Annum");
                                      double rate = sc.nextDouble();
                                        double interest = calculate(principal, time, rate); // LINE A
                                        print(principal, time, rate, interest);
                       }
                  public static double calculate(double principal, double time, double rate)
                                {
                                        double result = principal * time * rate / 100.0;
                                        return result;
                                }

                  public static void print(double p, double t, double r, double interest)
                        {
                          System.out.print("Interest for Rs " + p + " for " + t + " years );
                          System.out.print("at the rate of " + r + "% p.a. is Rs " + interest);
                        }
             }
```

Output :

```
  Enter Principal Amount:
     5000
  Enter Time (years)
       2.0
  Enter Rate per Annum
    11.25
Interest for Rs 5000.0 for 2.0 years at the rate of 11.25% p.a. is Rs 1125.0
```

2: Write java program find using scanner class find area of triangle using method

—>

```
package yasin;
 import java.util.Scanner;
  public class Assignment_4
     {

          public static void main(String[] args)throws Exception
             {

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

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

                   double area=areaOfTriangle(b,h);
                   System.out.println("Area of Triangle is: " + area);
               }
                  static double areaOfTriangle(double b,double h)
                     {  return ((b*h)/2); }
      }
```

Output :

```
Enter the width of the Triangle:
2
Enter the height of the Triangle:
3
Area of Triangle is: 3.0
```

3: Write a java program find addition, subtraction, multiplication and division using scanner class with method

```
package yasin;
     import java.util.Scanner;
       public class Assignment_4
          {
               public static void main(String[] args)throws Exception
                  {
                        int a,b;
                         System.out.println("Enter first number");
                         a=sc.nextInt();
                         System.out.println("Enter second number");
                         b=sc.nextInt();
```

```
                System.out.println("Addition of two numbers is : "
                +addition(a,b));
                System.out.println("Subtraction of two numbers is :"
                +subtraction(a,b));
                System.out.println("Multiplication of two numbers is:"
                +multiplication(a,b));
                System.out.println("Division of two numbers is :"
                +division(a,b));
        }

                static int addition(int x,int y)
                {
                        return x+y;
                }
                static int subtraction(int x,int y)
                {
                        return x-y;
                }
                static int multiplication(int x,int y)
                {
                        return x*y;
                }
                static int division(int x,int y)
                {
                        return x/y;
                }
        }
```

Output :

```
Enter first number
2
Enter second number
2
Addition of two numbers is : 4
Subtraction of two numbers is : 0
Multiplication of two numbers is : 4
Division of two numbers is : 1
```

4: Write a java program find square and cube using switch case with scanner class

```
package yasin;
    import java.util.Scanner;
     public class Assignment_4
        {
            public static void main(String[] args)throws Exception
               {
                  System.out.println("Enter a Number Do You Perform Operation");
                    int n=sc.nextInt();
                    System.out.println("Enter a Menu number ");
                    System.out.println("1.Square /  2.Cube");
                    int ch=sc.nextInt();



                 switch(ch)
                    {
                        case 1 :
                            System.out.println("square is "+n*n);
                       break;
                       case 2:
                            System.out.println("cube is "+n*n*n);
                          break;
                       default:
                            System.out.println("you enter wrong choice \t");
                     }
                }
         }
```

Output :

```
    Enter a Number Do You Perform Operation
         2
    Enter a Menu number
       1.Square /  2.Cube
            2
        cube is
```

5: Write a java program using Scanner class find number is positive or negative

—>

```
    package yasin;
     import java.util.Scanner;
      public class Assignment_4
        {
            public static void main(String[] args)throws Exception
               {
```

```
                                System.out.println("Enter Number");
                                int n=sc.nextInt();
                                    if (n > 0)
                                    {  System.out.println("Number is positive"); }
                                   else if (n < 0)
                                   { System.out.println("Number is Negative"); }
                                   else
                                    { System.out.println("Number is Zero"); }
                            }
                    }
```

Output:

```
Enter Number
2
Number is positive
```

6: Write a java program using Scanner class perform swapping of two number

```
package yasin;
      import java.util.Scanner;
       public class Assignment_4
          {
              public static void main(String[] args)throws Exception
                      {
                         System.out.println("Enter first Number ");
                         int a=sc.nextInt();
                         System.out.println("Enter Second Number");
                         int b=sc.nextInt();
                         System.out.println("Original Number : "+a+" "+b);
                         int c =a;
                             a=b;
                              b=c;
                           System.out.println("After Swapping : "+a+" "+b);
                    }
           }
```

Output:

```
Enter first Number
2
Enter Second Number
3
Original Number : 2 3
After Swapping :  3 2
```