```java
import java.util.Scanner;
public class Main
{
    public static void main(String[] args)
    {
        Scanner scanner=new Scanner(System.in);
        System.out.println("enter the value of net salary");
        double netsalary=scanner.nextDouble();
        double detucted=0;
        double convienceallowance=0;
        if(netsalary>50000)
        {
            detucted=netsalary*0.10;
            convienceallowance=netsalary*0.30;
        }
        double finalsalary=netsalary-detucted+convienceallowance;
        System.out.println("net salary:"+netsalary);
        System.out.println("tax detucted:"+detucted);
        System.out.println("convience allowance:"+convienceallowance);
        System.out.println("final salary:"+finalsalary);
    }
}
```

```
enter the value of net salary
51000
net salary:51000.0
tax detucted:5100.0
convience allowance:15300.0
final salary:61200.0

=== Code Execution Successful ===
```

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter class mark1: ");
        int classMark1 = scanner.nextInt();
        System.out.print("Enter class mark2: ");
        int classMark2 = scanner.nextInt();
        System.out.print("Enter model marks: ");
        int modelMarks = scanner.nextInt();
        int totalMarks = classMark1 + classMark2 + modelMarks;
        System.out.println("classMark1: " + classMark1);
        System.out.println("classMark2: " + classMark2);
        System.out.println("modelMarks: " + modelMarks);
        System.out.println("Total Marks: " + totalMarks);
        if (totalMarks > 71) {
            System.out.println("Distinction");
        } else if (totalMarks > 60 && totalMarks <= 71) {
            System.out.println("First Class");
        } else if (totalMarks > 50 && totalMarks <= 60) {
            System.out.println("Second Class");
        } else {
            System.out.println("Fail");
        }
        scanner.close();
    }
}
```

```
Enter class mark1: 20
Enter class mark2: 25
Enter model marks: 25
classMark1: 20
classMark2: 25
modelMarks: 25
Total Marks: 70
First Class

=== Code Execution Successful ===
```

°F
oudy
Search
ENG
IN

```java
import java.util.Scanner;
public class Main{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a string: ");
        String input = scanner.nextLine();
        String reversed = new StringBuilder(input).reverse().toString();
        int length = input.length();
        String upperCase = input.toUpperCase();
        String lowerCase = input.toLowerCase();
        System.out.println("Reversed String: " + reversed);
        System.out.println("Length of String: " + length);
        System.out.println("Upper Case: " + upperCase);
        System.out.println("Lower Case: " + lowerCase);
        scanner.close();
    }
}

```

```
Enter a string: niha
Reversed String: ahin
Length of String: 4
Upper Case: NIHA
Lower Case: niha

=== Code Execution Successful ===
```

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter the principal amount (P): ");
        double principal = scanner.nextDouble();
        System.out.println("Enter the time period in years (T): ");
        double time = scanner.nextDouble();
        System.out.println("Enter the annual interest rate in percentage (R): "
            );
        double rate = scanner.nextDouble();
        double simpleInterest = (principal * time * rate) / 100;
        System.out.println("Simple Interest is: " + simpleInterest);
        System.out.println("Enter the number of times the interest is compounded
            per year: ");
        int n = scanner.nextInt();
        double compoundAmount = principal*Math.pow(1 + (rate/100) / n,n *time);
        double compoundInterest = compoundAmount-principal;
        System.out.println("Compound Interest is: " + compoundInterest);
        System.out.println("Total amount after " + time + " years: " +
            compoundAmount);
        scanner.close();
    }
}
```

```
Enter the principal amount (P):
20
Enter the time period in years (T):
30
Enter the annual interest rate in percentage (R):
40
Simple Interest is: 240.0
Enter the number of times the interest is compounded per year:
3
Compound Interest is: 1560321.3032249617
Total amount after 30.0 years: 1560341.3032249617

=== Code Execution Successful ===
```

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number (1-12) to display the month: ");
        int monthNumber = scanner.nextInt();
        String monthName;
        switch (monthNumber) {
            case 1:
                monthName = "January";
                break;
            case 2:
                monthName = "February";
                break;
            case 3:
                monthName = "March";
                break;
            case 4:
                monthName = "April";
                break;
            case 5:
                monthName = "May";
                break;
            case 6:
                monthName = "June";
                break;
            case 7:
                monthName = "July";
                break;
            case 8:
                monthName = "August";
                break;
            case 9:
                monthName = "September";
                break;
            case 10:
                monthName = "October";
                break;
            case 11:
                monthName = "November";
                break;
            case 12:
                monthName = "December";
                break;
            default:
                monthName = "Invalid month number! Please enter a number between 1 and 12.";
                break;
        }
        System.out.println(monthName);
        scanner.close();
    }
}
```

```
Enter a number (1-12) to display the month: 12
December

=== Code Execution Successful ===
```

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter first number:");
        double n1 = scanner.nextDouble();
        System.out.println("Enter second number:");
        double n2 = scanner.nextDouble();
        double sum = n1 + n2;
        System.out.println("The sum is: " + sum);
        double sub = n1 - n2;
        System.out.println("The subtraction is: " + sub);
        double mul = n1 * n2;
        System.out.println("The multiplication is: " + mul);
            double div = n1 / n2;
            System.out.println("The division is: " + div);
        scanner.close();
    }
}
```

```
Enter first number:
6
Enter second number:
3
The sum is: 9.0
The subtraction is: 3.0
The multiplication is: 18.0
The division is: 2.0

=== Code Execution Successful ===
```