

## **BASIC STATEMENTS:**

### **1.**

```
Import java.util.Scanner;

Public class Main {

    Public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        String name = sc.next();

        System.out.println("Hello");

        System.out.println(name);

    }

}
```

### **2.**

```
Import java.util.Scanner;

Public class main {

    Public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        Int num = sc.nextInt();

        Double fnum = sc.nextDouble();

        System.out.println(num);

        System.out.printf("%.2f", fnum);

        Sc.close();

    }

}
```

### **3.**

```
Import java.util.Scanner;
```

```

Public class main{
    Public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String a = sc.next();
        System.out.println("May I know how to learn " + a + "!!!...");
        Sc.close();
    }
}

```

**4.**

```

Import java.util.Scanner;

Public class ExecuteStringStatement {
    Public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String inputString = sc.nextLine();
        System.out.println("Hai " + inputString + "! Welcome to
Programming Language...");
    }
}

```

**5.**

```

Import java.util.Scanner;

Public class MathCalculations {

```

```

Public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

    Double floatValue = sc.nextDouble();

    Int sqrtValue = sc.nextInt();

    Int base = sc.nextInt();

    Int power = sc.nextInt();

    System.out.println((int) Math.floor(floatValue));

    System.out.println((int) Math.ceil(floatValue));

    System.out.println((int) Math.sqrt(sqrtValue));

    System.out.println((int) Math.pow(base, power));

}
}

```

## **CONTROL STATEMENTS:**

### **1.**

```

Import java.io.*;

Import java.util.*;

Import java.text.DecimalFormat;

Public class Solution {

    Public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        Int basicSalary = sc.nextInt();

        Double hra;

        Double da;
    }
}

```

```

If (basicSalary < 15000) {
    Hra = 0.15 * basicSalary;
    Da = 0.90 * basicSalary;
} else {
    Hra = 5000;
    Da = 0.98 * basicSalary;
}

Double grossSalary = basicSalary + hra + da;
DecimalFormat df = new DecimalFormat("0.00");
System.out.println(df.format(grossSalary));
Sc.close();
}
}

```

**2.**

```

Import java.io.*;
Import java.util.*;

Public class Solution {
    Public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        String name = sc.nextLine();
        Int arrears = sc.nextInt();
        Int cgpa = sc.nextInt();

        System.out.println("Name of the Student:" + name + "");

        If ((arrears == 1 && cgpa > 70) || ((arrears == 1 || arrears == 2) && cgpa > 75)) {
            System.out.println(name + " is Eligible for Placement");
        } else {

```

```
        System.out.println(name + " is Not Eligible for Placement");
    }
    Sc.close();
}
}
```

### 3.

```
Import java.io.*;
Import java.util.*;
Public class Solution {
    Public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        Int balance = sc.nextInt();
        Int processType = sc.nextInt();
        Int amount = 0;
        If (processType == 1 || processType == 2) {
            Amount = sc.nextInt();
        }
        Switch (processType) {
            Case 1:
                Balance += amount;
                System.out.println(balance);
                Break;
            Case 2:
                If (amount > balance) {
                    System.out.println("Insufficient Balance");
                } else {
```

```

        Balance -= amount;

        System.out.println(balance);
    }

    Break;

Default:

    System.out.println("Invalid Input");

    Break;

}

Sc.close();

}

}

```

#### 4.

```

Import java.util.Scanner;

Public class VowelConsonantChecker {

    Public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        Char ch = sc.next().charAt(0);

        If (!Character.isLetter(ch)) {

            System.out.println("Invalid Input");

        } else {

            Char c = Character.toUpperCase(ch);

            Switch © {

                Case 'A':

                Case 'E':

                Case 'I':

                Case 'O':

```

Case 'U':

```
System.out.println("The Character " + ch + " is Vowel");
```

```
Break;
```

Default:

```
System.out.println("The Character " + ch + " is Consonant");
```

```
Break;
```

```
}
```

```
}
```

```
Sc.close();
```

```
}
```

```
}
```

**5.**

```
Import java.util.Scanner;
```

```
Public class GradingSystem {
```

```
Public static void main(String[] args) {
```

```
Scanner sc = new Scanner(System.in);
```

```
String name = sc.nextLine();
```

```
Int mark1 = sc.nextInt();
```

```
Int mark2 = sc.nextInt();
```

```
Int mark3 = sc.nextInt();
```

```
Int mark4 = sc.nextInt();
```

```
Int mark5 = sc.nextInt();
```

```
Int total = mark1 + mark2 + mark3 + mark4 + mark5;
```

```
Double average = total / 5.0;
```

```
String grade;
```

```
If (average >= 90) {
```

```
        Grade = "A";
    } else if (average >= 80) {
        Grade = "B";
    } else if (average >= 70) {
        Grade = "C";
    } else if (average >= 60) {
        Grade = "D";
    } else {
        Grade = "Fail";
    }
    System.out.println("Name of the Student:" + name);
    System.out.println("Total Mark:" + total);
    System.out.println("Average Mark:" + average);
    System.out.println("Grade Mark:" + grade);
    Sc.close();
}
}
```