**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();

}

}