**1.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

Scanner s = new Scanner(System.in);

String a = s. next();

System.out.println("Hello");

System.out.println(""+a);

}

}

**2.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

float b = s.nextFloat();

System.out.println(a);

System.out.printf("%.2f\n", b); // Corrected line

}

}

**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 main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String a = sc.nextLine();

System.out.println("Hai " + a + "! Welcome to Programming Language...");

sc.close();

}

}

**5.**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

float num = sc.nextFloat();

int square = sc.nextInt();

int base = sc.nextInt();

int power = sc.nextInt();

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

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

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

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

sc.close();

}

}

**6.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

float num = sc.nextFloat();

System.out.printf("%f\n", num); // Default 6 decimal places

System.out.printf("%.4f\n", num); // 4 decimal places

System.out.printf("%.2f\n", num); // 2 decimal places

System.out.printf("%.0f\n", num); // No decimal places (rounded)

}

}

**7.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int x1 = sc.nextInt();

int y1 = sc.nextInt();

int x2 = sc.nextInt();

int y2 = sc.nextInt();

double midX = (x1 + x2) / 2.0;

double midY = (y1 + y2) / 2.0;

System.out.println("Binoy's house is located at (" + midX + "," + midY + ")");

}

}

**8.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt(); // Read the two-digit number

int sumOfDigits = (n / 10) + (n % 10); // Calculate the sum of digits

System.out.println("Bird said:" + n); // Print the first part of the output

System.out.println("Alice must go in path-" + sumOfDigits);

sc.close();

}

}

**9**.

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

double base = sc.nextDouble();

double height = sc.nextDouble();

double side1 = sc.nextDouble();

double side2 = sc.nextDouble();

double side3 = sc.nextDouble();

double area = 0.5 \* base \* height;

double perimeter = side1 + side2 + side3;

System.out.printf("Area of Triangle is %.2f\n", area);

System.out.printf("Perimeter of Triangle is %.2f\n", perimeter);

sc.close();

}

}

**10.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner scan = new Scanner(System.in);

// Read the three integers: x, a, and b

int x = scan.nextInt();

int a = scan.nextInt();

int b = scan.nextInt();

scan.close();

// Calculate the profit

int profit = (x \* a) - (x \* b) - 100;

// Print the output in the specified format

System.out.println("Number of copies sold:" + x);

System.out.println("Cost of each copy:" + a);

System.out.println("Cost spent by agency on each newspaper:" + b);

System.out.println("The profit obtained is Rs." + profit + ".00");

}

}

**11.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int basicSalary = scanner.nextInt();

scanner.close();

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;

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

}

}

**12.**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String name = sc.nextLine();

int a = sc.nextInt();

int c = sc.nextInt();

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

if (a == 1 && c> 70) {

System.out.println(name + " is Eligible for Placement");

} else if ((a == 1 || a == 2) && c > 75) {

System.out.println(name + " is Eligible for Placement");

} else {

System.out.println(name + " is Not Eligible for Placement");

}

sc.close();

}

}

**13.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

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

if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||

ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U') {

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

} else if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {

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

} else {

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

}

sc.close();

}

}

**14.**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int dayNumber = scanner.nextInt();

scanner.close();

switch (dayNumber) {

case 1:

System.out.println("Monday");

break;

case 2:

System.out.println("Tuesday");

break;

case 3:

System.out.println("Wednesday");

break;

case 4:

System.out.println("Thursday");

break;

case 5:

System.out.println("Friday");

break;

case 6:

System.out.println("Saturday");

break;

case 7:

System.out.println("Sunday");

break;

default:

System.out.println("Enter a valid Input");

break;

}

}

}

**15.**

import java.util.Scanner;

public class LargestOfThreeNumbers {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Read three integer inputs

int a = scanner.nextInt();

int b = scanner.nextInt();

int c = scanner.nextInt();

// Determine the largest using nested if-else

if (a > b) {

if (a > c) {

System.out.println("a is largest then b and c");

} else {

System.out.println("c is largest then a and b");

}

} else { // b >= a

if (b > c) {

System.out.println("b is largest then a and c");

} else {

System.out.println("c is largest then a and b");

}

}

scanner.close();

}

}