import java.util.Scanner;

public class Assignment {

public static void main(String[] args) {

**// 1. Write the java statement that assigns 1 to x if y is greater than 0.**

int x, y;

Scanner scan = new Scanner(System.in);

System.out.println("Enter y");

y = scan.nextInt();

if (y > 0) {

x = 1;

System.out.printf("x = %d", x);

} else {

System.out.println("Invalid");

}

**// 2. Suppose that score is a variable of type double. Write the java statement that increases the score by 5 marks if score is between 80 and 90.**

double score;

Scanner scan = new Scanner(System.in);

System.out.println("Enter score : ");

score = scan.nextDouble();

if (score > 80 && score < 90) {

score = score + (float) 5;

System.out.printf("your new score is %f", score);

} else {

System.out.println("Invalid");

}

**// 3. Rewrite in java the following statement without using Not(!) operator: item = !((i<10)||(v>=50))**

==> The statement that has no ! operator is item = ((i<10)&&(v>=50))

**// 4. Write a java statement that print true if x is an odd number and positive.**

Scanner scan = new Scanner(System.in);

System.out.printf("Enter x : ");

int x = scan.nextInt();

if (x % 2 != 0 && x > 0) {

System.out.println("true");

} else {

System.out.println("false");

}

**// 5. Write a java statement that prints true if both x and y are positive numbers.**

Scanner input = new Scanner(System.in);

System.out.println("Enter x : ");

float x = input.nextFloat();

System.out.println("Enter y : ");

float y = input.nextFloat();

boolean choice1 = true;

boolean choice2 = false;

if (x > 0 && y > 0) {

System.out.println(choice1);

} else {

System.out.println(choice2);

}

**// 6.Write a java statement that prints true if x and y has the same sign(+/-).**

long x;

long y;

Scanner Input = new Scanner(System.in);

System.out.println("Enter x :");

x = Input.nextInt();

System.out.println("Enter y :");

y = Input.nextInt();

if (x > 0 && y > 0) {

System.out.println("true");

} else {

System.out.println("false");

}

**// 7. Convert the following statement to if-else and if-then statement**

**String dayString1, dayString2, dayString3;**

**int day = KB.nextInt();**

**switch (day) {**

**case 1: dayString1 = "Saturday";**

**case 2: dayString2 = "Sunday";**

**break;**

**case 3: dayString3 = "Monday";**

**break;**

**case 4: dayString1 = "Tuesday";**

**case 5: dayString2 = "Wednesday";**

**break;**

**default: dayString3 = "Invalid day";**

**break;**

**}**

**// Method 1 : if-else statement**

String dayString1, dayString2, dayString3;

int day = KB.nextInt();

if (day == 1) {

dayString1 = "Saturday";

}

if (day == 2) {

dayString2 = "Sunday";

}

if (day == 3) {

dayString3 = "Monday";

}

if (day == 4) {

dayString1 = "Tuesday";

}

if (day == 5) {

dayString2 = "Wednesday";

}

if (day != 1 && day != 2 && day != 3 && day != 4 && day != 5) {

dayString3 = "Invalid day";

}

**// Method 2 : if-then statement**

String dayString1, dayString2, dayString3;

int day = KB.nextInt();

if (day == 1) {

dayString1 = "Saturday";

} else if (day == 2) {

dayString2 = "Sunday";

} else if (day == 3) {

dayString3 = "Monday";

} else if (day == 4) {

dayString1 = "Tuesday";

} else if (day == 5) {

dayString2 = "Wednesday";

} else {

dayString3 = "Invalid day";

}

**// 8. Body Mass Index (BMI) is a measure of health on weight. It can be calculated by taking your weight in kilograms and dividing by the square of your height in meters. Write a program that prompts the user to enter a weight in kilograms and height in meters and displays the BMI.**

float weight, height, BMI;

Scanner scan = new Scanner(System.in);

System.out.println("Enter weight in kilogram : ");

weight = scan.nextFloat();

System.out.println("Enter height in meter : ");

height = scan.nextFloat();

BMI = weight / (height \* height);

System.out.printf("BMI = %f", BMI);

**// 9. . Write a program that reads the performance level of an employee (between 0 and 100) and his salary. Then it increases the salary by 3% if performance level is grater than or equal to 90.**

Scanner scan = new Scanner(System.in);

System.out.println("Enter performance level :");

int Perforlevel = scan.nextInt();

System.out.println("Enter your base salary :");

float salary = scan.nextFloat();

if (Perforlevel >= 90) {

salary = salary \* (float) 1.03;

System.out.printf("Salary is %f", salary);

} else {

System.out.printf("Salary is %f", salary);

}

}

}