```
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))
```

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// 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);

}
```

}