## JS (condition)

## **Conditions in JavaScript**

Conditions in JavaScript are used to perform different actions based on different conditions. The most common conditional statements are if, else i

```
if , else if , and else

if (condition1) {
   // Code to execute if condition1 is true
   } else if (condition2) {
   // Code to execute if condition1 is false and condition2 is true
   } else {
   // Code to execute if neither condition1 nor condition2 is true
```

• If Statement: Executes a block of code if the specified condition is true.

```
let age = 20;

if (age >= 18) { //return ture
  console.log("You are an adult.");
}
```

• else **Statement**: Executes a block of code if the condition in the if statement is false.

```
let age = 16;

if (age >= 18) {
   console.log("You are an adult.");
} else {
```

```
console.log("You are a minor.");
}
```

• else if Statement: Specifies a new condition to test if the first condition is false.

```
let score = 75;

if (score >= 90) {
   console.log("Grade A");
} else if (score >= 80) {
   console.log("Grade B");
} else if (score >= 70) {
   console.log("Grade C");
} else {
   console.log("Grade D");
}
```

## switch Statement

The switch statement is used to perform different actions based on different conditions. It is often used as an alternative to a series of if statements.

```
let day = 3;

switch (day) {
    case 1:
        console.log("Monday");
        break;
    case 2:
        console.log("Tuesday");
        break;
    case 3:
        console.log("Wednesday");
        break;
    case 4:
        console.log("Thursday");
```

```
break;
case 5:
    console.log("Friday");
    break;
case 6:
    console.log("Saturday");
    break;
case 7:
    console.log("Sunday");
    break;
default:
    console.log("Invalid day");
}
```

## Question

- Write a program that checks if a person is eligible to vote based on their age. (use if else)
- Write a program that determines the day of the week based on a numeric day value (1-7). (use Switch case)
- Write a program that assigns a letter grade based on a numerical score. (use if, elseif, else)
- Write a program that identifies the season based on the month of the year.(
   switch or if, elseif, else)
- Write a program that checks if a given number is even or odd. (if condition)
- Write a program that compares two numbers and determines which one is greater, smaller, or if they are equal.(comparison operation with if, else)
- Write a program that assesses the strength of a password based on its length and content. (/[A-Z]/.test(password) && /[0-9]/.test(password))
- Write a program that classifies a person into age groups (Child, Teenager,
   Adult, Senior) based on their age. (use if else if else)

- Write a program that determines the weather condition (Hot, Warm, Cool, Cold) based on the temperature. (use if else condition)
- Write a program that validates if a given email address contains both "@" and ".". (use email.includen function)