**Question 1: Control Flow in JavaScript & if-else Statements**

**What is Control Flow?**

Control flow refers to the order in which statements are executed in a program. JavaScript executes code from top to bottom, but control structures like if-else, switch, and loops alter this flow based on conditions.

**How if-else Works**

The if-else statement executes a block of code if a condition is true, and an optional else block if it's false.

Example:

let age = 18;

if (age >= 18) {

console.log("You are an adult.");

} else {

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

}

// Output: "You are an adult."

**Multiple Conditions (else-if):**

let score = 85;

if (score >= 90) {

console.log("Grade: A");

} else if (score >= 80) {

console.log("Grade: B"); // This runs

} else if (score >= 70) {

console.log("Grade: C");

} else {

console.log("Grade: F");

}

### Question 2: Describe how switch statements work in JavaScript. When should you use a switch statement instead of if-else?

#### ****How Switch Statements Work****

A switch statement evaluates an expression and executes code based on matching cases. It is an alternative to long if-else chains when checking multiple possible values.

Example:

let day = "Monday";

switch (day) {

case "Monday":

console.log("Start of the workweek");

break;

case "Friday":

console.log("Weekend is near!");

break;

default:

console.log("It's a regular day");

}

// Output: "Start of the workweek"