Question 1: What is control flow in JavaScript? Explain how if-else statements work with an example.

Answer:
Control flow means **the order in which JavaScript runs your code**.
Sometimes you want the code to make decisions — for example:

- If age ≥ 18 → allow login

- If marks ≥ 35 → pass

- If raining → take umbrella

These decisions are done using **if-else**.

How if-else works:

- if → runs when the condition is **true**

- else → runs when the condition is **false**

- else if → used for multiple conditions

Example:

let marks = 75;

if (marks >= 90) {

   console.log("Grade A");

} else if (marks >= 60) {

   console.log("Grade B");

} else {

   console.log("Grade C");

}

Question 2: Describe how switch statements work. When should you use switch instead of if-else?

Answer:
A switch statement is used when you have **many conditions for one variable**. It checks the value and matches it with different **cases**.

How switch works:

- Each **case** is checked one by one

- When it matches → that block runs

- break stops the switch

- default runs when no case matches

When to use switch?

Use **switch** when:

- You have multiple choices

- You are checking the **same variable**

- Code looks messy with many else-if

Example uses:

- Days of week

- Months

- Menu options

- Grades

Example of Switch:

let color = "green";

switch (color) {

  case "red":

    console.log("Stop");

    break;

```javascript
    case "yellow":
        console.log("Wait");
        break;
    case "green":
        console.log("Go");
        break;
    default:
        console.log("Invalid color");
}
```