Theory Assignment

Question 1: What is Control Flow in JavaScript?

Control flow determines the order in which code runs. It uses conditions to decide which block of code to execute.

How if-else Works

Executes code based on conditions.

Example:

```
let age = 18;
if (age >= 18) {
  console.log("You can vote!");
} else {
  console.log("You cannot vote.");
}
```

- > If the condition is true, the if block runs.
- > If false, the else block runs.

Question 2: How switch Statements Work

- **Switch** is used to compare a value against multiple cases.
- > Example:

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

```
default:
    console.log("Other day");
}
```

- ✓ case: Defines a condition to match.
- ✓ **break**: Stops execution after a match.
- ✓ **default**: Runs if no case matches.
- When to Use switch Instead of if-else?
- ✓ Use switch when checking **multiple specific values**.
- ✓ Use if-else for range-based or complex conditions.