- ▼ Task 2: Control Flow (Conditions & Loops)
- **©** Goals:
 - Make decisions in code using if, else, switch
 - Repeat actions using loops like for, while
 - Understand how to exit or skip parts of loops with break and continue
- Concepts to Learn:
- 1. Conditional Statements
- if, else if, else

```
const serviceType = "car wash";

if (serviceType === "plumbing") {
  console.log("Assign a plumber.");
} else if (serviceType === "car wash") {
  console.log("Assign a car wash team.");
} else {
  console.log("Service not available.");
}

switch
```

```
switch (serviceType) {
  case "plumbing":
   console.log("Assign plumber.");
```

```
break;
 case "car wash":
 console.log("Assign car wash team.");
 break;
 default:
 console.log("Unknown service.");
}
 • 2. Loops
 for loop
for (let i = 0; i < 3; i++) {
console.log("Booking slot #" + (i + 1));
}
while loop
let count = 0;
while (count < 3) {
console.log("Reminder #" + (count + 1));
count++;
}
do...while loop
let tries = 0;
do{
console.log("Attempt " + tries);
tries++;
} while (tries < 2);
```

3. Loop Control: break and continue

```
for (let i = 1; i <= 5; i++) {
  if (i === 3) continue; // skips 3
  if (i === 5) break; // exits before printing 5
  console.log(i);
}</pre>
```

Practice Exercises

Exercise 1:

Write a function assignService(team) that:

- Takes a service name as input
- Returns "Team Assigned" for "car wash" or "plumbing"
- Returns "Invalid service" otherwise
 Use both if and switch versions.

Exercise 2:

Write a function countDown(n) that prints numbers from n down to 1 using a loop.

Exercise 3:

Create a for loop that:

- Loops through numbers 1 to 10
- Skips even numbers (continue)
- Stops the loop if it reaches 7 (break)

Reflection Questions

1. When should you use a switch over if?

- 2. What is the difference between while and do...while?
- 3. What happens if you forget break in a switch case?