# If , else statements

## Basic Structure

if (condition) {

// code to execute if condition is true

}

# Example of if,else statements

# 

let number = 3;

if (number > 5) {

console.log("The number is greater than 5.");

} else {

console.log("The number is 5 or less.");

}

# Multiple Conditions

let number = 7;

if (number > 10) {

console.log("The number is greater than 10.");

} else if (number > 5) {

console.log("The number is greater than 5 but 10 or less.");

} else {

console.log("The number is 5 or less.");

}

# Nested if Statements

let number = 8;

if (number > 5) {

console.log("The number is greater than 5.");

if (number > 7) {

console.log("The number is also greater than 7.");

}

}

# Example with Logical Operators

let age = 20;

let hasID = true;

if (age >= 18 && hasID) {

console.log("You are allowed to enter.");

} else {

console.log("You are not allowed to enter.");

}

# User Authentication

let username = "admin";

let password = "1234";

if (username === "admin" && password === "1234") {

console.log("Login successful.");

} else {

console.log("Invalid username or password.");

}

# Temperature Advice

let temperature = 30;

if (temperature < 0) {

console.log("It's freezing outside. Wear a heavy coat!");

} else if (temperature < 10) {

console.log("It's quite cold. Wear a jacket.");

} else if (temperature < 20) {

console.log("It's a bit chilly. You might need a sweater.");

} else if (temperature < 30) {

console.log("The weather is nice and warm.");

} else {

console.log("It's hot outside. Stay cool and hydrated!");

}

# Switch statements In js

This is besic syntex

switch(expression) {

case value1:

// code to be executed if expression === value1

break;

case value2:

// code to be executed if expression === value2

break;

// you can have as many case statements as you need

default:

// code to be executed if none of the cases match the expression

}

# Switch Statement to Determine the Day of the Week

let day;

let dayNumber = new Date().getDay(); // Get the current day number (0-6)

switch(dayNumber) {

case 0:

day = "Sunday";

break;

case 1:

day = "Monday";

break;

case 2:

day = "Tuesday";

break;

case 3:

day = "Wednesday";

break;

case 4:

day = "Thursday";

break;

case 5:

day = "Friday";

break;

case 6:

day = "Saturday";

break;

default:

day = "Invalid day";

}

console.log("Today is " + day);

# Switch Statement for Basic Calculator

let operator = '+';

let num1 = 5;

let num2 = 3;

let result;

switch(operator) {

case '+':

result = num1 + num2;

break;

case '-':

result = num1 - num2;

break;

case '\*':

result = num1 \* num2;

break;

case '/':

result = num1 / num2;

break;

default:

result = 'Invalid operator';

}

console.log("Result: " + result);