



IF...ELSE & ELSE IF STATEMENT, TESTING SET OF CONDITIONS



Assignment # 12-13
JAVASCRIPT

1. Write a program that takes a character (number or string) in a variable & checks whether the given input is a number, uppercase letter or lower case letter. (Hint: ASCII codes:- A=65, Z=90, a=97, z=122).

```
//ASSIGNMENT

let input = prompt("Enter a character:");

let charCode = input.charCodeAt(0);

if (charCode >= 48 && charCode <= 57) {
  console.log(input + " is a number.");
}
else if (charCode >= 65 && charCode <= 90) {
  console.log(input + " is an uppercase letter.");
}
else if (charCode >= 97 && charCode <= 122) {
  console.log(input + " is a lowercase letter.");
}
else {
  console.log("Invalid input.");
}
```

2. Write a JavaScript program that accept two integers and display the larger. Also show if the two integers are equal.

```
//ASSIGNMENT

let num1 = parseInt(prompt("Enter first number:"));
let num2 = parseInt(prompt("Enter second number:"));

if (num1 > num2) {
  console.log(num1 + " is larger than " + num2 + ".");
}
else if (num2 > num1) {
  console.log(num2 + " is larger than " + num1 + ".");
}
else {
  console.log("Both numbers are equal.");
}
```

3. Write a program that takes input a number from user & state whether the number is positive, negative or zero.

```
//ASSIGNMENT

let num = parseInt(prompt("Enter a number:"));
if (num > 0) {
  console.log(num + " is a positive number.");
}
else if (num < 0) {
  console.log(num + " is a negative number.");
}
else {
  console.log("The number is zero.");
}
```

4. Write a program that takes a character (i.e. string of length 1) and returns true if it is a vowel, false otherwise

```
//ASSIGNMENT
let char = prompt("Enter a character:").toLowerCase();
let flag=false;
if (char === "a" || char === "e" || char === "i" || char === "o" || char === "u") {
  console.log(char + " is a vowel.");
  flag= true;
  console.log(flag);
}
else {
  console.log(char + " is not a vowel.");
  console.log(flag);
}
```

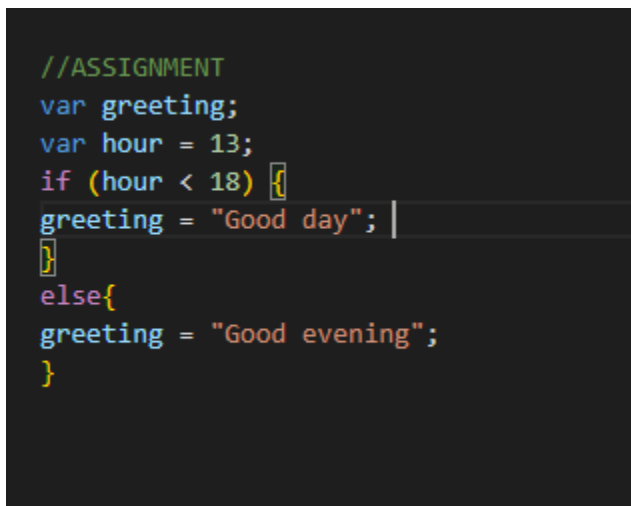
5. Write a program that
- Store correct password in a JS variable.
 - Asks user to enter his/her password
 - Validate the two passwords:
 - Check if user has entered password. If not, then give message “ Please enter your password”
 - Check if both passwords are same. If they are same, show message “Correct! The password you entered matches the original password”. Show “Incorrect password” otherwise.

```
//ASSIGNMENT
let password = "12345678";
let userInput=""

do{
  userInput = prompt("Enter your password:");
  if (userInput === "") {
    alert("Please enter your password.");
  }
  else {
    if (userInput === password) {
      alert("Correct! The password you entered matches the original password.");
    }
    else {
      alert("Incorrect password.");
    }
  }
}
while((userInput=== "" || userInput!=password))
```

6. This if/else statement does not work. Try to fix it:

```
var greeting;  
var hour = 13;  
if (hour < 18) {  
  greeting = "Good day";  
else  
  greeting = "Good evening";  
}
```



```
//ASSIGNMENT  
var greeting;  
var hour = 13;  
if (hour < 18) {  
  greeting = "Good day";  
}  
else {  
  greeting = "Good evening";  
}
```

7. Write a program that takes time as input from user in 24 hours clock format like: 1900 = 7pm. Implement the following case using if, else & else if statements

```
//ASSIGNMENT
var time=+prompt("Enter time in 24 hours clock format:")
if (time>=0000&&time<1200) {
    alert("Good Morning!")
}
else if (time>=1200&&time<1700) {
    alert("Good Afternoon!")
}
else if (time>=1700&&time<2100) {
    alert("Good Evening!")
}
else if (time>=2100&&time<2359) {
    alert("Good Night!")
}
else {
    alert("Invalid Input")
}
```

