```
// console.log("Condtional Statement");
// conditional statements: it is used to
control the flow of program.

/*

1. if staement: Use if to specify a block
of code to be executed, if a specified
condition is true.

*Syntax:->

 if (condition) {
  //  block of code to be executed if the
condition is true
}

*Note:->

that if is in lowercase letters. Uppercase
letters (If or IF) will generate a
JavaScript error.

*Example 1:
Q:Make a "Good day" greeting if the hour is
less than 18:00:
```

```
if (hour < 18) {
  greeting = "Good day";
}
ans-> Good day
 */
console.log("Example of  if statements");
//example 2 of if codn:
let n = 15;
if (n >= 10) {
  console.log("true");
}

//example 1 of if codn:
let age = 21;
if (age >= 18) {
  console.log("person is eligible to
vote");
}

/*
2. The else Statement :

Use the else statement to specify a block
of code to be executed if the condition is
false.
```

```
*Syntax:->

if (condition) {
  //  block of code to be executed if the
condition is true
} else {
  //  block of code to be executed if the
condition is false
}

*Example 1:

Q : If the hour is less than 18, create a
"Good day" greeting, otherwise "Good
evening":

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

ans:-> Good day
 */

console.log("Example of else statements");
```

```
//example 1 of  else codn:
let num = 4;
if (num % 2 == 0) {
  console.log("even");
} else {
  console.log("odd");
}

//example 2 of  else codn:
let num1 = 5;
if (num1 % 2 == 0) {
  console.log("even");
} else {
  console.log("odd");
}

/*
3. The else if Statement :->

Use the else if statement to specify a new
condition if the first condition is false.

*Syntax :->

if (condition1) {
```

```
  //  block of code to be executed if
condition1 is true
} else if (condition2) {
  //  block of code to be executed if the
condition1 is false and condition2 is true
} else {
  //  block of code to be executed if the
condition1 is false and condition2 is false
}

Example:->

Q: If time is less than 10:00, create a
"Good morning" greeting, if not, but time
is less than 20:00, create a "Good day"
greeting, otherwise a "Good evening":

if (time < 10) {
  greeting = "Good morning";
} else if (time < 20) {
  greeting = "Good day";
} else {
  greeting = "Good evening";
}

The result of greeting will be:
```

```
Good day
 */

console.log("Example of else if
statements");

//compare 2 numbers
//example 1
let a = 20;
let b = 10;

if (a > b) {
  console.log(" a is greater than b. ");
} else if (a == b) {
  console.log(" a is equal to b. ");
} else {
  console.log(" a is less than b. ");
}

//example 2
let a1 = 10;
let b1 = 20;

if (a1 > b1) {
  console.log(" a is greater than b. ");
```

```
} else if (a1 == b1) {
  console.log(" a is equal to b. ");
} else {
  console.log(" a is less than b. ");
}

//example 3
let a2 = 10;
let b2 = 10;

if (a2 > b2) {
  console.log(" a is greater than b. ");
} else if (a2 == b2) {
  console.log(" a is equal to b. ");
} else {
  console.log(" a is less than b. ");
}

//to find gender of a person

let gender = "";
// let gender = "F";
// let gender = "F";
if (gender == "M") {
  console.log("male");
} else if (gender == "F") {
```

```
  console.log("female");
} else {
  console.log("invalid gender");
}

/*
3: Switch Statement:->
it is used to perform different actions
based on different conditions switch
statement to select one of many code blocks
to be executes.

break : this keyword is used to break out
if the switch block, this stops the
execution inside code block.

Default : this keyword is used to specify a
pieace of code if no case matches the given
condition.

Syntax:
witch(expression) {
  case x:
    // code block
    break;
  case y:
```

```
    // code block
    break;
  default:
    // code block
}

This is how it works:

1. The switch expression is evaluated once.
2. The value of the expression is compared
with the values of each case.
3. If there is a match, the associated
block of code is executed.
4. If there is no match, the default code
block is executed.
 */

//Switch stament example:
console.log("Switch staement");

// example 1
let i = 5;
switch (i) {
  case 1:
    console.log("i is one");
    break;
```

```
  case 2:
    console.log("i is two");
    break;
  case 3:
    console.log("i is three");
    break;

  default:
    console.log("i is greater than 3");
}

// example 2
let i1 = 3;
switch (i1) {
  case 1:
    console.log("i is one");
    break;
  case 2:
    console.log("i is two");
    break;
  case 3:
    console.log("i is three");
    break;

  default:
    console.log("i is greater than 3");
```

```
}

// example 3
let i2 = 2;
switch (i2) {
  case 1:
    console.log("i is one");
    break;
  case 2:
    console.log("i is two");
    break;
  case 3:
    console.log("i is three");
    break;

  default:
    console.log("i is greater than 3");
}

// example 4
let i3 = 1;
switch (i3) {
  case 1:
    console.log("i is one");
    break;
  case 2:
```

```
    console.log("i is two");
    break;
  case 3:
    console.log("i is three");
    break;

  default:
    console.log("i is greater than 3");
}

// example 5
let grade = "B";

let result;

switch (grade) {
    case 'A':
        result = "Excellent";
        break;
    case 'B':
        result = "Average";
        break;
    case 'C':
        result = "Poor";
        break;
    default:
```

```
        result = "No grade";
}
console.log(result);

// example 6
let grade1 = "A";

let result1;

switch (grade1) {
    case 'A':
        result1 = "Excellent";
        break;
    case 'B':
        result1 = "Average";
        break;
    case 'C':
        result1 = "Poor";
        break;
    default:
        result1 = "No grade";
}
console.log(result1);

// example 7
let grade3 = "C";
```

```
let result3;

switch (grade3) {
    case 'A':
        result3 = "Excellent";
        break;
    case 'B':
        result3 = "Average";
        break;
    case 'C':
        result3 = "Poor";
        break;
    default:
        result3 = "No grade";
}
console.log(result3);

// example 8
let grade4 = " ";

let result4;

switch (grade4) {
    case 'A':
        result4 = "Excellent";
```

```
        break;
    case 'B':
        result4 = "Average";
        break;
    case 'C':
        result4 = "Poor";
        break;
    default:
        result4 = "No grade";
}
console.log(result4)
```