JavaScript : Module ②

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① Conditional statements :

(A) if Statement

- executes a block of code if a condition is true.

ex = let age = 18;
if (age >=18) {

    console. log (" Adult ! "); }   // Adult !

(B) if ... else Statement

- executes one block if condition is true, another if false

ex : let Age = 10;
if (age >= 18) {

    console.log ("Adult !");
} else {

    console. log (" Minor ! ");   // Minor

(c) if ... else. if ... else Statement

- checks multiple conditions sequentially

ex : let score = 85;
if (score >= 90) {

    console.log (" A ");
} else if (score >= 75) {

    console.log (" B "); }

```
else if ( score >= 60) {
    console.log ("C"); }
else {
    console.log (" F ");
}                                    // B
```

(D) Switch Statement
- used for multiple fixed value

ex: let day = 3;

```
switch (day) {
    case 1:
        console.log ("Monday");
        break;
    case 2:
        console.log (" Tuesday");
        break;
    case 3:
        console.log ("wednesday");
        break;
    default:
        console.log (" X ");
}                                    // wednesday
```

② Break :

•) Immediately exits the nearest loop or switch statements

•) Stops futher iterations or case execution

```
ex : for (let i = 1; i <= 5; i++) {
    if (i === 3) {
        break;
    }
    console.log (i);  }        // 1 2
```

③ continue

•) Skips the current iteration of a loop & move to the next iterations.

•) works only inside loops (for, while, do..while)

```
for (let i = 1; i <= 5; i++) {
    if (i === 3)
        continue;
    }
    console.log (i);  }        // 1 2 4 5
```

④ return :

    - exits from function immediately, optionally
     returning a value.

ex : function greet (name) {
    if (!name) {
      return;
    }

    console.log ("Hello, "+ name);
}

    greet ("");   // nothing printed
    greet ("Priya");   // Hello, Priya

⑤ throw :

    - throw an error manually. Can be caught
     using try-catch

let age = -5;
if (age <0) {
    throw "Invalid age!")
}   // Uncaught
                     Invalid age!

ex ①:
```
let num_1 = 6;                          // Check if number 1 is > than
                                        //           another number
let num_2 = 10 ;
console.log ("I am a Regular upper code");
if (num_1 > num_2) {
    console.log ("num 1 is > than num 2");
} else {
    console.log ("num 2 is > than num 1"); ✓ 10 > 6
}
```

ex ②:
```
let username = "alexdra";               // Check if a string is
                                        //    equal to another
let userName = "alexdra";
if (username == userName) {
    console.log ("Both username are equal"); ✓
} else {
    console.log (" Not Equal"); }
```

ex ③:
check if variable
a number
```
let score = 100;
if (typeof score === "number") {        // number
    console.log ("y");                  // y
} else {
    console.log ("N"); }
```

ex ④:
```
let isBoolean = false;
if (isBoolean) {
    console.log (!"");
} else {
    console.log (""");                  // °
}
```