

Subject : Information Technology

Standard : 12th Science.

Chapter No. 3 : Advanced JavaScript.

Topic Name : Switch case and looping structure.

Switch Case Statement :

- JavaScript has a built-in multiway decision statement known as Switch.
- The switch statement test the value of given expression against a list of case values and when match is found , a block of statement associated with that case is executed.
- There should not be duplicity between the cases. The value for the case must be similar data type as the variable in switch.
- The default statement is not mandatory.

Syntax of Switch Case Statement :

Switch (expression)

{

case value 1 :

statement block 1;

break;

Case value 2 :

statement block 2;

break;

(Cont...)

Syntax of Switch Case Statement :

.....

Case value n :

 statement block n;

 break;

Default :

 statement block;

}

Looping Statement :

- While creating programming logic, we need to execute some statements repeatedly.
- Iteration refers to the execution of statement or a group of statement of code for a fixed number of times or till the condition is satisfied.
- The condition should be Boolean condition.
- Some commonly used JavaScript looping statement are :

1. for.....loop :

- This loop executes statement's as long as condition becomes true, controls comes out from the loop when condition becomes false.
- Benefit of for – loop is that it combines initialization, condition and loop iteration (increment or decrement) in single statement.
- Syntax of for.....loop :

```
For(initialization ; condition ; iteration)
{
Statement block;
}
```

(Cont...)

1. **for.....loop :**

- Initialization is assigning initial value to the variable, which executes only once, and then the condition is checked.
- Loop will execute statements in statement block till the condition is true. When condition become false control is transferred out of the loop and it will execute remaining program.
- Iteration means increment or decrement value of a running variable.

2. While.....loop :

- This loop executes statement as long as the condition is true. As soon as condition become false control come out of the loop.

- Syntax :

Initialization ;

While(condition)

{

Statement block;

}

(Cont..)

2. While.....loop :

- The statement within the loop may be a single line or block of statements. If the statement within loop is a single line then the curly parenthesis is optional. Here loop will be executed repeatedly as long as the condition is the true. Note that if condition always true then loop would be executed infinitely so after some execution condition become false.

- Example:

```
var i=1  
While(i<=5){  
document.writeln(i);  
i=i+1;  
}
```

3. Break and continue statement :

- Break statement is used to jump out of loop. It is used to make an early exit from a loop. When keyword break is encountered inside the loop, control automatically passes to the next statement after the loop.
- Sometimes in looping it may be necessary to skip statement block and take the control at the beginning for next iteration. This is done by using '**continue**' statement in JavaScript.

THANK YOU.
