

# Client Side Scripting





## CO1

- **Create interactive web pages using program flow control structure**

## LO2

- Develop JavaScript to implement the switch-case statement for the given problem



# TEACHING AND EXAMINATION SCHEME

Teaching Scheme			Credit (L+T+P)	Examination Scheme														
L	T	P		Theory								Practical						
				Paper Hrs.	ESE		PA		Total		ESE		PA		Total			
					Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min		
3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20		



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2. if...else statement
3. if...else..if statement
4. nested if statement
5. Switch...case statement

# IF STATEMENT



- if is a predefined keyword of JavaScript.
- It is a selection statement/decision making statement.
- If condition is true then it will execute the body of if statement.
- If condition is false then it will not execute the body of if statement.

## Syntax:

```
if(condition)
{
    //body of if
}
```

## Example:

```
<html>
  <body>
    <script type = "text/javascript">
      var age = 20;

      if(age > 18)
      {
        document.write("Qualifies for driving");
      }
    </script>
  </body>
</html>
```



# IF-ELSE STATEMENT

- if and else both are predefined keyword of JavaScript.
- It is a selection statement/decision making statement.
- If condition is true then it will execute the body of if statement.
- If condition is false then it will execute the body of else statement.

## Syntax:

```
if(condition)
{
    //body of if
}
else
{
    //body of else
}
```

## Example:

```
<html>
  <body>
    <script type = "text/javascript">

      var age = 20;

      if(age > 18)
      {
        document.write("Qualifies for driving");
      }
      else
      {
        document.write("Not Qualifies for driving");
      }

    </script>
  </body>
</html>
```

# IF...ELSE...IF STATEMENT



- if and else both are predefined keyword of JavaScript.
- It is a selection statement/decision making statement.
- The if...else if... statement is an advanced form of if...else that allows JavaScript to make a correct decision out of several conditions.
- It is a chain of if-else.

## Syntax:

```
if(condition-1)
{
    //statement-1
}
else if(condition-2)
{
    //statement-2
}
else if(condition-3)
{
    //statement-3
}
else
{
    //statement-4
}
```



# IF...ELSE...IF STATEMENT- EXAMPLE

```
<html>
  <body>
    <script type = "text/javascript">

      var marks = 67.78;

      if(marks >= 75)
      {
        document.write("You got Distinction");
      }
      else if(marks>=60)
      {
        document.write("You got First Class");
      }
      else if(marks>=40)
      {
        document.write("You are Pass Only");
      }
      else
      {
        document.write("You are Fail");
      }

    </script>
  </body>
</html>
```



# NESTED IF...ELSE STATEMENT



- if and else both are predefined keyword of JavaScript.
- It is a selection statement/decision making statement.
- If we use one if-else within another if-else statement then it is called as nested if-else statement.
- This statement is used to take correct decision out of several conditions.

## Syntax:

```
if(condition-1)
{
    if(condition-2)
    {
        //statements
    }
    else
    {
        //statements
    }
}
else
{
    if(condition-3)
    {
        //statements
    }
    else
    {
        //statements
    }
}
```

# NESTED IF...ELSE STATEMENT- EXAMPLE



```
<html>
<body>

    <script type = "text/javascript">

var a=10; var b=20; var c=30;

if(a>b)
{
if(a>c)
{
document.write("Greatest Number="+a);
}
else
{
document.write("Greatest Number="+c);
}
}
else
{
if(b>c)
{
document.write("Greatest Number="+b);
}
else
{
document.write("Greatest Number="+c);
}
}
}
</script>
</body>    </html>
```

# SWITCH CASE STATEMENT



- Switch statement is used to execute one of the statements from many blocks of statements.
- It is a selection statement.
- There are four keywords are used i.e switch, case, break, default.
- Switch case expression value compared with case value and if it is match then corresponding block will be executed . If none of case values are matched then default block is executed.

## Syntax:

```
switch(Expression)
{
case value1:    //statement;
                                break;

case value2:    //statement;
                                break;

case value3:    //statement;
                                break;

default:        //default statement;
}
}
```

# SWITCH CASE STATEMENT- EXAMPLE



```
<html>
  <body>
    <script type = "text/javascript">
      var grade = 'M';
      switch (grade)
      {
        case 'A': document.write("Good job");
                  break;

        case 'B': document.write("Pretty good");
                  break;

        case 'C': document.write("Passed");
                  break;

        case 'D': document.write("Not so good");
                  break;

        case 'F': document.write("Failed");
                  break;

        default:  document.write("Please enter valid grade");
      }
    </script>
  </body>
</html>
```



## QUIZ TIME

**Q1.** What will be the output of the following JavaScript code?

```
var grade='A';  
var result;  
switch(grade)  
{  
  case 'A':  
    result+="10";  
  case 'B':  
    result+=" 9";  
  case 'C':  
    result+=" 8";  
  default:  
    result+=" 0";  
} document. Write(result);
```

- a) 10
- b) 27
- c) 8
- d) 0

► **Ans. b. 27**

**Q2.** Which statement is used to test a specific condition?

- a) Select
- b) If
- c) Switch
- d) For

► **Ans. b. If**

## QUIZ TIME



**Q3.** What will be the output of the following JavaScript code?

```
Int a=1;  
if(a>10)  
{  
  document. Write(10);  
}  
else {  
  document. Write(a);  
}
```

- a) 10
- b) 0
- c) 1
- d) Undefined

► **Ans.c .1**

• **Q4.A statement block is a**

- a) Block that combines multiple statements into a single compound statement
- b) Conditional block
- c) Block that contains single statement
- d) Both conditional block and single statement

► **Ans.a. Block that combines multiple statements into a single compound statement**



# Thank You