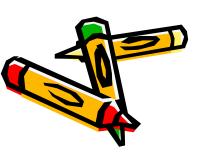


Java Script Control Structures and Conditional Statements

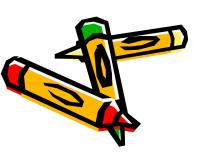
Conditional Statements in JS

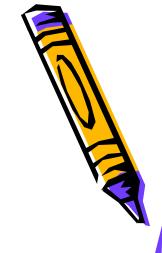
- The conditional statements available in JavaScript for decision making are:
- if statement
- if...else statement
- · if...else if....else statement
- switch statement



if the conditional statement

```
<html>
       <body>
         <<u>script</u> type="text/javascript">
var exforsys = 20
if (exforsys < 30)
               document.write("<b>Welcome</b>")
    </<u>script</u>>
</body>
</html>
```

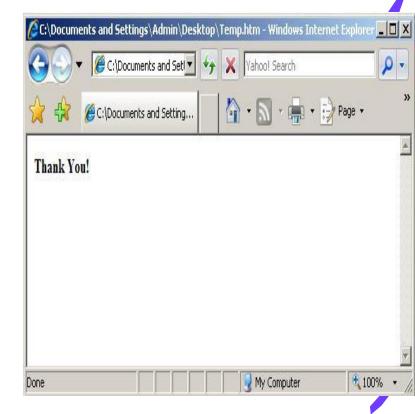




If-else statement

```
<html>
     <body>
      <script type="text/javascript">
  var exforsys = 40
if (exforsys < 30)
   document.write("<b>Welcome</b>")
else
 document.write("<b>Thank You!</b>")
</script>
</body>
</html>
```

Output of the above script as produced in a HTML page is shown below:



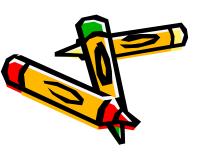


Conditional Statement part-2 if-else-if statement

```
<html>
      <body>
       <script type="text/javascript">
  var exforsys = 20
  if (exforsys < 5)</pre>
             document.write("<b>Welcome</b>")
          else if (exforsys > 5 && exforsys < 10)
            document.write("<b>Have a nice day!</b>")
         else
           document.write("<b>Thank You!</b>")
       </script>
      </body>
</html>
```

switch statement

```
<html>
     <body>
       <script type="text/javascript">
var exforsys = 4
         switch (exforsys)
          case 1:
            document.write("<b>Hi!</b>")
            break
          case 2:
            document.write("<b>Welcome</b>")
            break
          case 3:
            document.write("<b>Thank You!</b>")
            break
          default:
            document.write("<b>Have a Great Day!</b>")
       </script>
     </body>
    </html>
```





JavaScript Iterative Structures - Part I

- Looping can be achieved in JavaScript using various statements:
- for loop
- · while loop
- · do..while loop
- for..in loop



For-loop statement

```
<html>
     <body>
        <<u>script</u> type="text/javascript">
         var exfor=1
          for (exfor=1;exfor<=15;exfor++)
            document.write("Value is: " + exfor)
document.write("<br />")
  </<u>script</u>>
</body>
</html>
```



Note: The *break* command is used for breaking the loop and continuing with the execution of the code that follows after the loop.

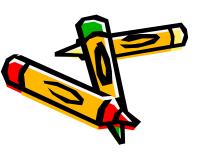
The command continue is used for breaking the current loop and proceeding with the next value.

while-do

```
<html>
 <body>
      <script type="text/javascript">
        var exfor=1
        while (exfor<=15)
        document.write("Value is: " + exfor)
        document.write("<br />")
        exfor=exfor+1
      </script>
    </body>
  </html>
```

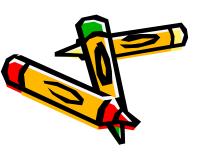
do-while

```
<html>
     <body>
       <script type="text/javascript">
          var exfor=1
          do
          document.write("Value is: " + exfor) document.write("<br />")
          exfor=exfor+1
          while (exfor<1)
   </script>
</body>
</html>
```



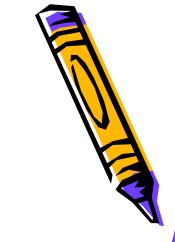
Arrays in JS

- In JavaScript, arrays are objects that have some special functionality.
- JavaScript arrays have dynamic length.
- Defining an Array in JavaScript:
 Array is defined in JavaScript by making use of the keyword new.
- General format of defining array in JavaScript is as follows:
 var varaiblename = new Array()
 eg. Var your_list=new Array(100);
- Short form of declaring array
 var Exforsys=new Array(1,2,"three","four")
 (Note: The elements of an array need not have the same type)



Array Example

```
<html>
<head><title>My Java Script-page</title></head>
<script type="text/javascript">
var num = new Array(10) // definition
 var i:
    for (i=0; i<5; i++)
         number=prompt("Enter a number : ","0");
         num[i]=number;
document.writeln("The numbers are: ");
   for (i=0; i<5; i++)
         document.writeln(num[i]);
/script>
<body>
</body>
</html>
```



This example takes the value from key board store it in an array and display from the array



Exercise (45 minutes)

- Write a function counter() to return number of negative, zeros, positive values in the given array. Use switch statement
- Write a function to print first 20 Fibonacci numbers.
- Write a function add_digits() to add the digits of a number
 (Eg. 1234(i/p)->1+2+3+4=10(o/p))

