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JavaScript For Loop

Loops execute a block of code a specified number of times, or while a specified condition is true. Often when you write code, you want the same block of code to run over and over again in a row. Instead of adding several almost equal lines in a script we can use loops to perform a task like this. In JavaScript, there are two different kind of loops:

- **for**, which loops through a block of code a specified number of times. It is discussed in this slide.
- **while**, which loops through a block of code while a specified condition is true. It will be discussed in the next slide.

The syntax of **for** loop is given on the right:

```
1 | for ( var=start; var<=end; var+=increment ) {  
2 |   code to be executed  
3 | }
```

The script checks whether the entered ID is numeric or not. It uses a for loop to loop through the ID byte by byte. The property **length** of the object **String** contains the length of the string. For example,

```
var s = "Hello!";  
document.write(
```

s.length);

will print a value of 6.

```
<html>
<head>
  <script type="text/javascript">
    var digits = '0123456789';
    function isNumber( parm ) {
      if ( parm == "" ) return true;
      for ( i = 0; i < parm.length; i++ )
        if ( digits.indexOf( parm.charAt( i ), 0 ) == -1 )
          return false;
      return true;
    }
  </script>
</head>

<body>
  <script type="text/javascript">
    var ID = window.prompt( "Enter ID:" );
    if ( isNumber( ID ) )
      document.write( "Valid ID: " + ID );
    else
      document.write( "Wrong ID: " + ID );
  </script>
</body>
</html>
```

Display the HTML

Reset

Demonstration

The following demonstration shows how the script of HTML and JavaScript is displayed on the Web.

Display the HTML

Reset

```
<html>
<head>
  <script type="text/javascript">
    function howMany (selectItem) {
      var numberSelected=0
      for (var i=0; i < selectItem.options.length; i++)
        if (selectItem.options[i].selected == true)
          numberSelected++;
      return numberSelected
    }
  </script>
</head>
<body>
  <form name="selectForm">
    <p>Choose some book types:</p>
    <select multiple name="bookTypes" size="6">
      <option selected> Classic </option>
      <option> Information Books </option>
    </select>
  </form>
</body>
</html>
```

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