MES Abasaheb Garware College, Pune

MSc (CA) Sem I

CA-CCPP-1 Web Technology Laboratory

Assignment No 1: Set-I JavaScript

**Roll No:15027**

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1. Write a JavaScript to create an image slider. (Use array to store images).

Take array of image names. Read image name from array using for loop. Then display first image in div tag using img tag.

**ANSWER :**

**<html>**

**<head>**

**<title>**

**Image Slider using array**

**</title>**

**<script language="JavaScript" type="text/javascript">**

**var i = 0;**

**var path = new Array();**

**path[0] = "1.jpeg";**

**path[1] = "2.jpg";**

**path[2] = "3.jpeg";**

**function swapImage()**

**{**

**document.slide.src = path[i];**

**if(i < path.length - 1) i++; else i = 0;**

**setTimeout("swapImage()",3000);**

**}**

**window.onload=swapImage;**

**</script>**

**<body>**

**<center>**

**<img height="200" name="slide" src="image\_1.jpeg" width="400" />**

**</center>**

**</body>**

**</html>**

1. Write a JavaScript Program to read a number from user, store its factors into the array and display that array. (Handle onClick Event)

**Hint :** Use textbox to accept a number from user. Find out factors of number and store in array. Display array in div tag (Using innerHTML).

**ANSWER :**

**<html>**

**<head>**

**<script>**

**function display()**

**{**

**var no=parseInt(prompt("Enter a number"));**

**var fact=new Array(10);**

**var j=0;**

**for(i=1;i<=no/2;i++)**

**{**

**if(no%i==0)**

**{**

**fact[j]=i;**

**j++;**

**}**

**}**

**for(i=0;i<j;j++)**

**document.write(fact[i]+"</br>");**

**}**

**</script>**

**<input type=button id=clk value="Enter Number" onclick="display()">**

**</html>**

1. Write a java script function to display Clock in the textbox.

**Hint:** Display current time in textbox using function in javascript.

Update current time after 1 minute using setTimeout(), setInterval()

**ANSWER :**

**<html>**

**<head>**

**<title>CLOCK</title>**

**<script type="text/javascript">**

**function display\_1()**

**{**

**var refresh=10000;**

**clocktime=setTimeout('display\_2()',refresh)**

**}**

**function display\_2()**

**{**

**var x = new Date()**

**document.getElementById('t1').value = x;**

**display\_1();**

**}**

**</script>**

**</head>**

**<body onload=display\_2();>**

**<input type=text id='t1' size='70'>**

**</body>**

**</html>**

1. Write a JavaScript program to read a character string from user and perform the following functions:

* Accept a character from user and count the number of occurrences of that character in the string.
* Accept a Position from user and print the character at specified position.

**Hint:** Accept a string, character and position from user using textbox or prompt.

User charAt() or indexOf() to check the character is present in the string or not. If character is present then increment count.

Use charAt() by passing accepted position and display character present at specified position.

Display output inside div tag using innerHTML.

**ANSWER :**

**<html>**

**<head>**

**<style>**

**.myDiv {**

**border: 3px outset red;**

**background-color: yellow;**

**text-align: center;**

**}**

**</style>**

**<script>**

**function count()**

**{**

**var s=document.getElementById("c").value;**

**if(document.getElementById("c1").checked==true)**

**{**

**var ch=prompt("Enter the Character that you want to find occurrence");**

**var i;**

**var cnt=0;**

**for(i=0;i<s.length;i++)**

**{ if(s[i]==ch)**

**{ cnt++; }**

**}**

**document.write(cnt);**

**}**

**if(document.getElementById("c2").checked==true)**

**{**

**var pos=prompt("Enter the Position of character that you want to serach?:");**

**document.write(s[pos])**

**}**

**}**

**</script>**

**</head>**

**<body>**

**<div class="myDiv">**

**<h4>Occurrence Of Character</h4>**

**<center>**

**<input type="text"id="c"placeholder="Enter String">**

**<br>**

**<input type="radio"id="c1"name="option">**

**Count the number of occurrences of a particular character:<br>**

**<input type="radio"id="c2"name="option">**

**Display the character at the Specified position:<br>**

**<button onclick="count()">Submit</button>**

**</center>**

**</div>**

**</body>**

1. Write a JavaScript program to design **student registration form** and perform following validation:-

* Check all fields should not contain a null value.
* Check name field contains only alphabets.
* Mobile No. field should be of 10 digits.
* Pin code field should be of 06 digits.

**Hint:**

1. User required attribute of HTML5 tag or take value of textbox in variable and use length to check for null.
2. Use regular expression

var letters = /^[A-Za-z]+$/;

var uname = document.uform.uname.value;

if(uname.match(letters))

OR

Use Number.isNaN(uname)

1. Take mobilno check for length – 10 characters

Use Number.isInteger() to check for digits.

1. For pin code use same as mobileno.

**ANSWER :**

**<html>**

**<head>**

**<title> Javascript Validation </title>**

**<script>**

**function validate()**

**{**

**sname=document.getElementById("nm").value;**

**smobile=document.getElementById("mb").value;**

**saddress=document.getElementById("add").value;**

**spin=document.getElementById("pin").value;**

**if(sname==""||smobile==""||saddress==""||spin=="")**

**{**

**alert("Fields should not be empty");**

**return false;**

**}**

**else if(!sname.match(/^[A-Za-z]+$/))**

**{**

**alert("Name should contain only characters")**

**return false;**

**}**

**else if(!smobile.match(/^\d{10}$/))**

**{**

**alert("Mobile number Not valid")**

**return false;**

**}**

**else if(!spin.match(/^\d{6}$/))**

**{**

**alert("Pin number Not valid")**

**return false;**

**}**

**alert("Valid");**

**return false;**

**}**

**</script>**

**<body>**

**<form name="frmStudent">**

**<table align="center" width=300>**

**<tr><th colspan=2>Student Registration Form</th></tr>**

**<tr><td>Name of Student</td><td><input type=text name=txtSname id=nm size=30></td>**

**<tr><td>Mobile No</td><td><input type=text name=txtSmobile id=mb size=30></td>**

**<tr><td>Address Line</td><td><input type=text name=txtSaddress id=add size=30></td>**

**<tr><td>City</td><td><input type=text name=txtScity id=ct size=30></td>**

**<tr><td>State</td><td><input type=text name=txtSstate id=st size=30></td>**

**<tr><td>Pincode</td><td><input type=text name=txtSpin id=pin size=30></td>**

**<tr><td><input type=submit value="Submit" onClick="return validate()"></td><td><input type=reset value="Reset"></td></tr>**

**</table>**

**</form>**

**</body>**

**</html>**

6. Write a Java Script program to design **Customer Account Details Form** and perform validation on pan number field. (pan number is of only 10 characters long, out of which first 5 characters are alphabets, next 4 characters are digits and last character is alphabet )

**Hint:** Take PAN no as string using textbox.

var pan = document.custform.panno.value;

pan.length – To check for 10 characters only.

var p = /^[A-Z]{5}[0-9]{4}[A-Z]{1}$/;

**ANSWER :**

**<html>**

**<head>**

**<script>**

**function validate()**

**{**

**p = document.getElementById("pan").value;**

**if(!p.match(/^[A-Z]{5}[0-9]{4}[A-Z]{1}$/))**

**alert("Invalid");**

**else**

**alert("valid");**

**}**

**</script>**

**</head>**

**<body>**

**<center>**

**<form method="post">**

**<table cellpadding=10>**

**<tr>**

**<td><font size= 4> Name of customer: </td>**

**<td> <input type="text" id=cname> </td>**

**</tr>**

**<tr>**

**<td> <font size=4>name of bank: </td>**

**<td> <input type="text" id=bname> </td>**

**</tr>**

**<tr>**

**<td> <font size= 4> accno: </td>**

**<td> <input type="text" id=acno name=acno> </td>**

**</tr>**

**<tr>**

**<td> <font size= 4> pan no: </td>**

**<td> <input type="text" id=pan name=pan> </td>**

**</tr>**

**</table><br><br>**

**<input type="submit" name="submit" value="Submit">**

**<input type="reset" name="clear" value="Reset">**

**</form>**

**</center>**

**</body>**

**</html>**