

1) Give syntax of and explain the use of “with” statement/clause in JavaScript using suitable example.

Syntax:

with (*object*)
 statement

introduces the properties of *object* as local variables in *statement*. Example (the braces are optional for single statements, but it is recommended to add them):

```
> with({ first: "Shree" }) { alert("Shree "+first); }  
Hello John
```

2) Write a JavaScript that identifies a running browser.

Identifiers are names.

In JavaScript, identifiers are used to name variables (and keywords, and functions, and labels).

The rules for legal names are much the same in most programming languages.

In JavaScript, the first character must be a letter, or an underscore (_), or a dollar sign (\$).

Subsequent characters may be letters, digits, underscores, or dollar signs.

3) Write a script for creating following frame structure :

```
<html>  
<head>  
    <title>Example of HTML Frames using row and Cols attribute</title>
```

```
</head>

<frameset rows = "20%,*">
  <frame src =
    "D:\Shree\data0\Shree VAPM\2019-2020\Java Script\Chapter 5\Frame4.html" />

<frameset cols="50%, 50%">
  <frame src =
    "D:\Shree\data0\Shree VAPM\2019-2020\Java Script\Chapter 5\Frame1.html" />
  <frame src =
    "D:\Shree\data0\Shree VAPM\2019-2020\Java Script\Chapter 5\Frame2.html" />

</frameset>

</html>
```

4) Enlist and explain the use of any two Intrinsic JavaScript functions.

JavaScript provides some special set of built in function are **called intrinsic functions**.

There are some such functions to achieve actions of submit and reset button.

Syntax use in built function is:-

```
onclick="javascript:document.forms.formname.reset()"
onclick="javascript:document.forms.formname.submit()"

<html>
<body>
  <form name="frm1" method="post">
    Name<input type="text" name="t1"><br>
    Password<input type="text" name="t2"><br>
    <button onclick="javascript:document.forms.formname.submit()">submit</button>
    <button onclick="javascript:document.forms.formname.reset()">reset</button>
  </form>
</body>
</html>
```

There are following Intrinsic JavaScript Functions:-

- 1) Disable()
- 2) Enable()

- 3) Readonly()
- 4) Enter()
- 5) Submit()
- 6) Reset()

5) Write a JavaScript function to count the number of vowels in a given string.

```
<html>
<head>
  <script>
    function getVowels(str) {
      var vowelsCount = 0;

      //turn the input into a string
      var string = str.toString();

      //loop through the string
      for (var i = 0; i <= string.length - 1; i++) {

        //if a vowel, add to vowel count
        if (string.charAt(i) == "a" || string.charAt(i) == "e" || string.charAt(i) == "i" ||
            string.charAt(i) == "o" || string.charAt(i) == "u") {
          vowelsCount += 1;
        }
      }
      return vowelsCount;
    }
    document.write(getVowels("Ram"));
  </script>
</head>
</html>
```

6) Write a JavaScript that find and displays number of duplicate values in an array.

```
<html>
<head>
  <script>
    function find_duplicate_in_array(arr1) {
      var object = { };
      var result = [];

      arr1.forEach(function (item) {
        if(!object[item])
          object[item] = 0;
        object[item] += 1;
      });
    }
  </script>
</head>
</html>
```

```
    })

    for (var prop in object) {
        if(object[prop] >= 2) {
            result.push(prop);
        }
    }

    return result;
}

document.write(find_duplicate_in_array([1, 2, -2, 4, 5, 4, 7, 8, 7, 7, 71, 3, 6]));
</script>
</head>
</html>
```

Q.5) Attempt any TWO of the following. 12 Marks

a) Write HTML Script that displays textboxes for accepting Name, middlename, Surname of the user and a Submit button. Write proper JavaScript such that when the user clicks on submit button

i) All textboxes must get disabled and change the color to “RED”. And with Respective labels. (*Change Body Background Color, Change Label Background Color, Change Label Text Color*)

```
<html>
<head>
<title>Change the Background Color Dynamically with JavaScript</title>
<script>
    // Function to change webpage background color
    function changeBodyBg(color){
        document.body.style.background = color;
    }

    // Function to change heading background color
    function changeLabelBg(color){
        document.getElementById("bg").style.background = color;
    }

    function changeLabeltx(color){
        document.getElementById("tx").style.color = color;
    }
</script>
```

```

</head>
<body>
  <label id="bg">First Name</label> <input type="text"><br>
  <label id="tx">Middle Name</label> <input type="text"><br>
  <label>Last Name</label> <input type="text"><br>
  <hr>

  <label>Change Body Background To:</label>
  <button type="button" onclick="changeBodyBg('yellow');">Yellow</button>
  <button type="button" onclick="changeBodyBg('lime');">Lime</button>
  <button type="button" onclick="changeBodyBg('orange');">Orange</button>

  <br>
  <hr>
  <br>
  <label>Change Label Background To:</label>
  <button type="button" onclick="changeLabelBg('red');">Red</button>
  <button type="button" onclick="changeLabelBg('green');">Green</button>
  <button type="button" onclick="changeLabelBg('blue');">Blue</button>
  <hr>
  <br>
  <label>Change Label Text To:</label>
  <button type="button" onclick="changeLabeltx('red');">Red</button>
  <button type="button" onclick="changeLabeltx('green');">Green</button>
  <button type="button" onclick="changeLabeltx('blue');">Blue</button>

</body>
</html>

```

ii) Constructs the mailID as <name>.<surname>@msbte.com and displays mail ID as message. (Ex.If user enters Rajni as name and Pathak as surname mailID will be constructed as rajni.pathak@msbte.com)

```

<html>
<head>
<script>
function validateForm() {
  var x = document.forms["myForm"]["email"].value;
  var atpos = x.indexOf("@");
  var dotpos = x.lastIndexOf(".");
  if (atpos<1 || dotpos<atpos+2 || dotpos+2>=x.length) {
    alert("Not a valid e-mail address");
    return false;
  }
  else{
    alert("A valid e-mail address");
  }
}

```

```
}  
</script>  
</head>  
<body>  
  
<form name="myForm">  
  Email: <input type="text" name="email">  
  <input type="submit" value="Submit" onclick="validateForm()">  
</form>  
  
</body>  
</html>
```

b) Write a webpage that displays a form that contains an input for Username and password. User is prompted to enter the input and password and password becomes value of the cookie. Write The JavaScript function for storing the cookie. It gets executed when the password changes.

```
<html lang="en">  
<head>  
  <title>JavaScript Cookies</title>  
</head>  
<body>  
  
  <script>  
    function SetCookie(){  
      if( document.mycookies.user.value == "" && document.mycookies.pass.value == "" ){  
        document.write("Please Enter the Username and Password");  
        return;  
      }  
      username = escape(document.mycookies.user.value);  
      password = escape(document.mycookies.pass.value);  
      document.cookie="name="+ username;  
      document.cookie="pass="+ password;  
      document.write("Set Cookies User Name= : "+ username + "<br>");  
      document.write("Set Cookies Password= : " + password );  
    }  
  </script>  
  
  <form name="mycookies" action="">  
    Enter Your Username: <input type="text" name="user"/><br>  
    Enter Your Password: <input type="text" name="pass"/><br>  
    <input type="button" value="Set Cookie" onclick="SetCookie()"/>
```

```
</form>
```

```
</body>
```

```
</html>
```

c) Write a script for creating following frame structure :

FRAME1	
FRAME2 <ul style="list-style-type: none"> • FRUITS • FLOWERS • CITIES 	FRAME3

Fruits, Flowers and Cities are links to the webpage fruits.html, flowers.html, Cities.html respectively. When these links are clicked corresponding data appears in “FRAME3”.

1) frame1.html

```
<html>
<body>
  <center><h1>Frame1</h1></center>
</body></html>
```

2) frame2.html

```
<html>
<body>
  <h1>Frame2</h1>
  <ul>
    <li>FRUITS</li>
    <li>FLOWERS</li>
    <li>CITIES</li>
  </ul>
</body></html>
```

3) frame3.html

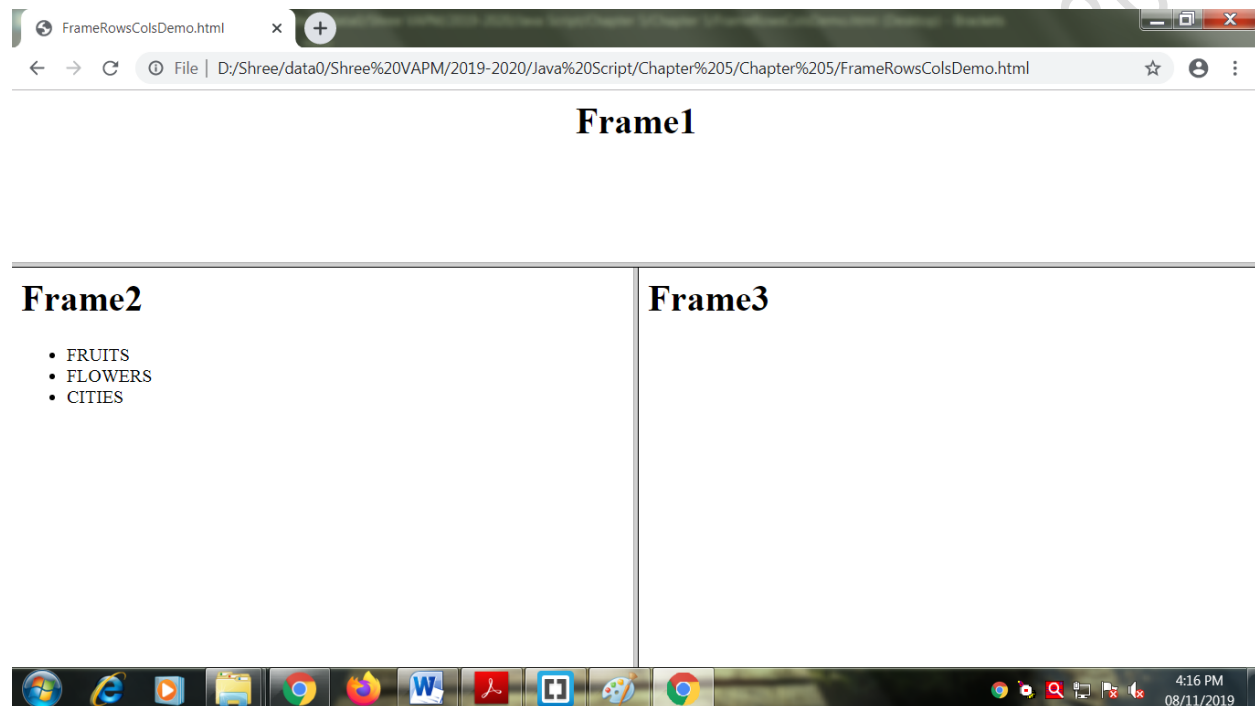
```
<html>
<body>
  <h1>Frame3</h1>
</body></html>
```

4) frame3.html(Main Frame)

```
<html>
```

```
<frameset rows="30 %,*">  
  <frame src="frame1.html" >
```

```
<frameset cols="35 %,35 %">  
  <frame src="frame2.html">  
  <frame src="frame3.html">  
</frameset>  
</frameset>  
</html>
```



Q.6) Attempt any TWO of the following. 12 Marks

a) Write HTML Script that displays dropdownlist containing options NewDelhi, Mumbai, Bangalore. Write proper JavaScript such that when the user selects any options corresponding description of about 20 words and image of the city appear in table which appears below on the same page.

```
<html>  
<head>  
<script>  
  function imgWindow() {  
    window.open ("Computer.html")}
```

```
  function imgWindow1() {  
    window.open ("Mechanical.html")}
```



```
function imgWindow2 () {
    window.open ("Civil.html") }

function imgWindow3 () {
    window.open ("Electrical.html")}

function imgWindow4() {
    window.open ("Electronics.html")}
</script>
<title> Welcome to Slideshow</title>
<style>
body
{
background-image: url ("i.jpg") ;
}
img
{
padding-left: 20px;
}
</style>
</head>
<body><br><br><br>
    <marquee>
        
        
        

    </marquee>
</body>
</html>
```

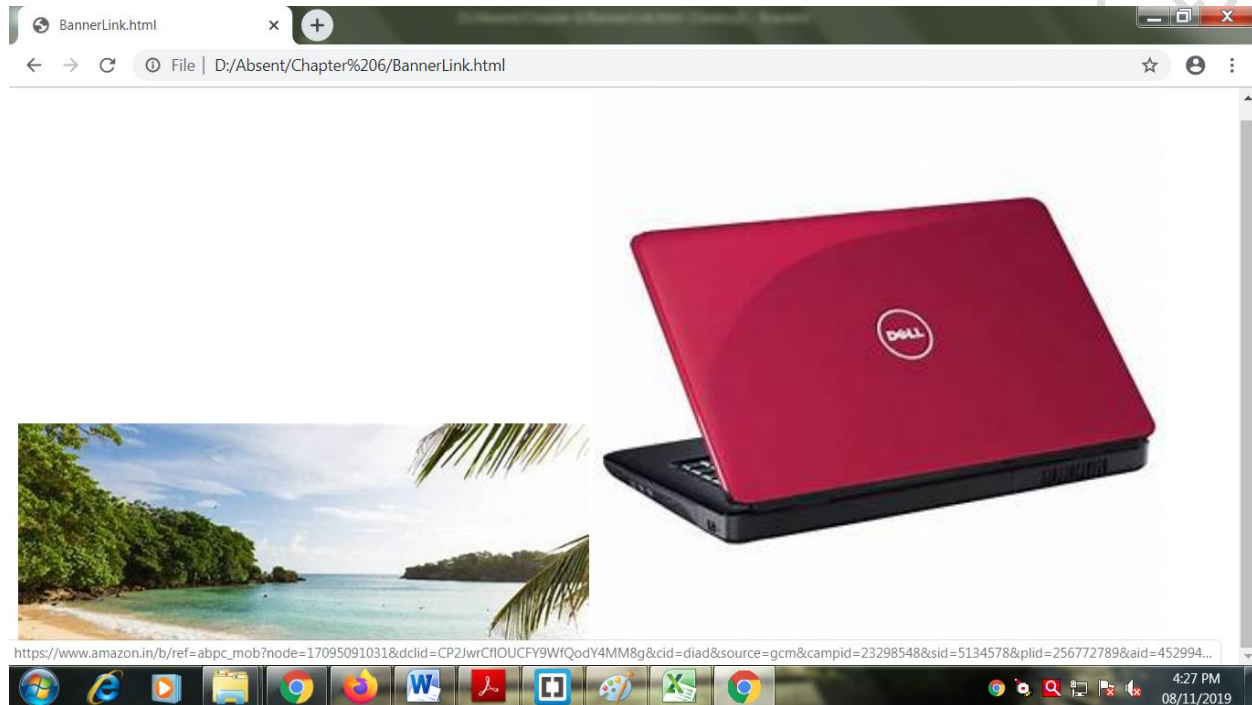
b) Develop a JavaScript Program to Create Rotating Banner Ads with URL Links.

```
<html>
<body>
    <a href="https://msbte.org.in/">
    
```

```

</a>
<a
href="https://www.amazon.in/b/ref=abpc_mob?node=17095091031&dclid=CP2JwrCfIOUCFY9
WfQodY4MM8g&cid=diad&source=gcm&campid=23298548&sid=5134578&plid=256772789
&aid=452994376&crd=122424737">
  
</a>
</body>
</html>

```



(Click Laptop than go to amazon above link)

c) Create a slideshow with the group of four images, also simulate the next and previous Transition between slides in your JavaScript.

```

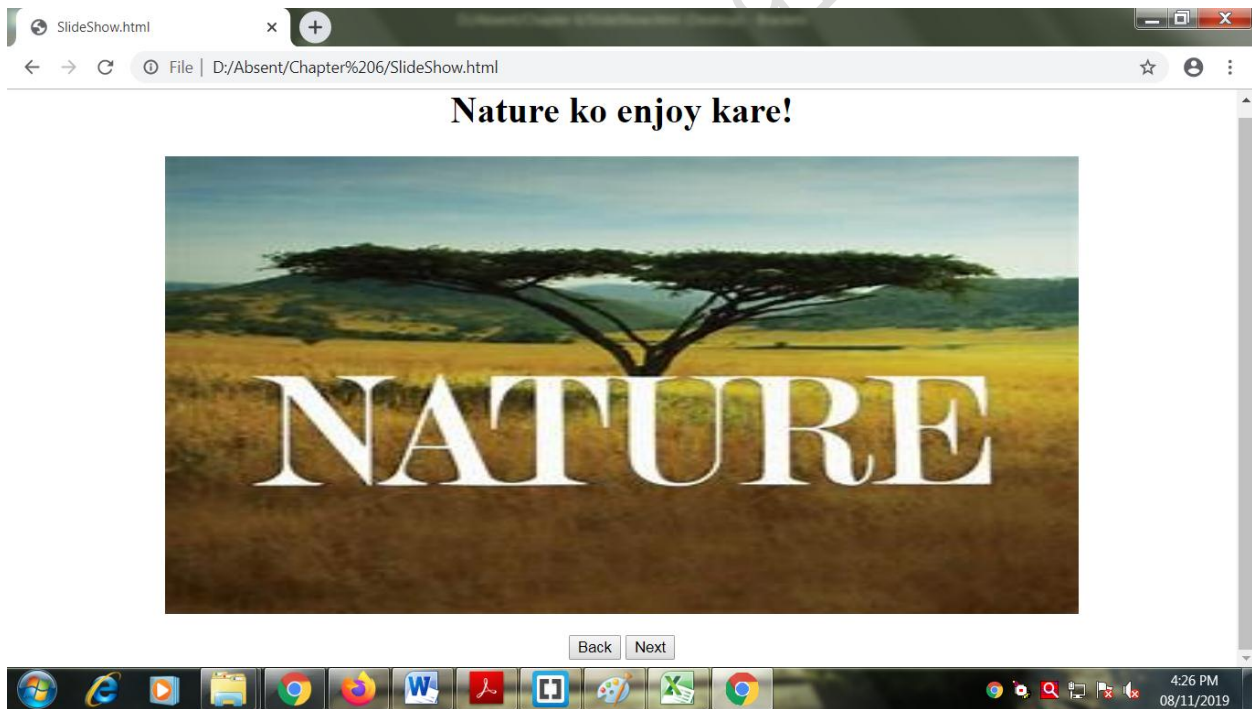
<html>
<head>
<script>
Slider=new
Array('download1.jpg','download2.jpg','download3.jpg','download4.jpg','download5.jpg');
i=0;
function display(sn)
{
i=i+sn;
if(i>Slider.length-1)
{
i=0;
}
}

```

```
if(i<0)
{
i=Silder.length-1;
}
document.SlideID.src=Silder[i];

}
</script>
</head>
<body>
<center>
<h1>Nature ko enjoy kare!</h1>

<br><br>
<button onclick="display(-1)">Back</button>
<button onclick="display(1)">Next</button></center>
</body>
</html>
```





*Put your best effort on the exam and God will
Surely Crown you with success. My Good
wishes always with you.*

Mr. Swami R.S. [Lecture in Computer Engg.]

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