## Web Technologies - Assignment 1

#### Batch 9

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## Questions

- 1. Write a Javascript Program to Calculate Sum & Average of an Array using functions. Use dialog boxes to get the input.
- 2. Create an XML document consisting of details of employees in an `organization. Validate the document using XML Schema

#### Solution

### Question 1

```
Code
<html>
<head>
<title>Javascript</title>
</head>
<body style="padding-left:6px">
<h1>JavaScript</h1>
Array Size

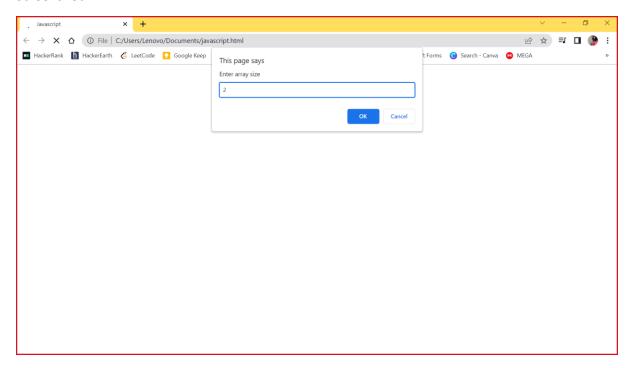
Array

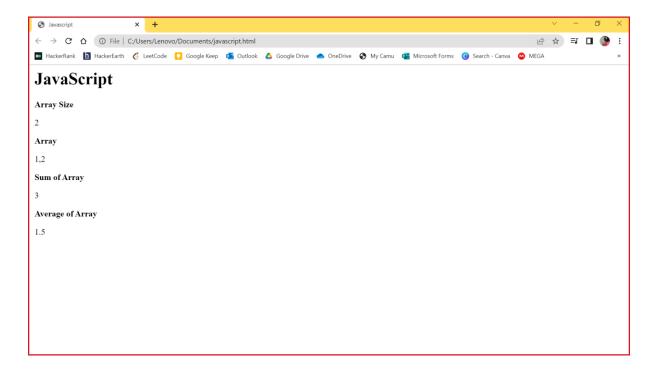
Sum of Array
```

Average of Array

```
<script>
var inputarr = [];
var size;
var sum=0;
var avg=0;
size = prompt('Enter array size ');
document.getElementById("array_size").innerHTML = size;
for(var a=0; a<size; a++)</pre>
{
  inputarr[a] = prompt('Enter array Element ' + (a+1));
}
document.getElementById("array").innerHTML = inputarr;
for(var a=0; a<size; a++)</pre>
{
  sum = sum + parseInt(inputarr[a]);
}
document.getElementById("sum_array").innerHTML = sum;
for(var a=0; a<size; a++)</pre>
{
  avg = sum/size;
}
document.getElementById("avg_array").innerHTML = avg;
</script>
</body>
</html>
```

#### Screenshot





# Question 2

## Code

## employee.xml

<?xml version="1.0" encoding="UTF-8"?>

<class>

```
<employee>
  <id>001</id>
  <name>Sruthi</name>
  <department>Testing</department>
  <salary>10000</salary>
 </employee>
 <employee>
  <id>002</id>
  <name>Dhivya</name>
  <department>Testing</department>
   <salary>10000</salary>
 </employee>
 <employee>
  <id>003</id>
  <name>Ranjith</name>
  <department>Development</department>
   <salary>15000</salary>
 </employee>
</class>
employee.xsd
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"</pre>
xmlns:xs="http://www.w3.org/2001/XMLSchema">
 <xs:element name="class">
 <xs:complexType>
   <xs:sequence>
    <xs:element name="employee" maxOccurs="unbounded" minOccurs="0">
     <xs:complexType>
      <xs:sequence>
      <xs:element type="xs:byte" name="id"/>
      <xs:element type="xs:string" name="name"/>
```

#### XML - XSD Validator

