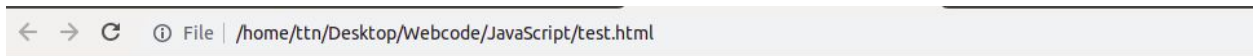


Assignment -5 (Introduction to Javascript)

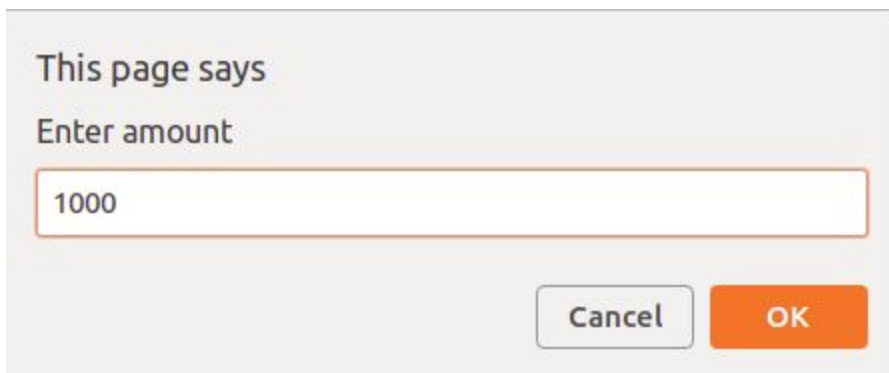
1. Prompt for amount, interest rate and no. of years and calculate simple interest.

Screenshot of Html and Output Recorded

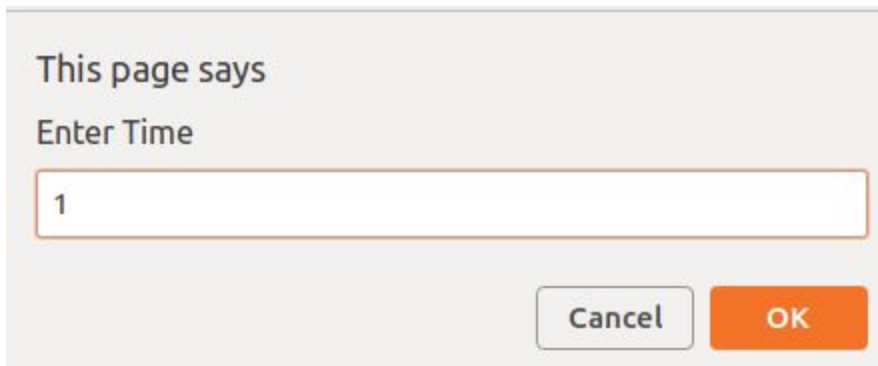


Question 1 Prompt for amount, interest rate and no. of years and calculate simple interest.

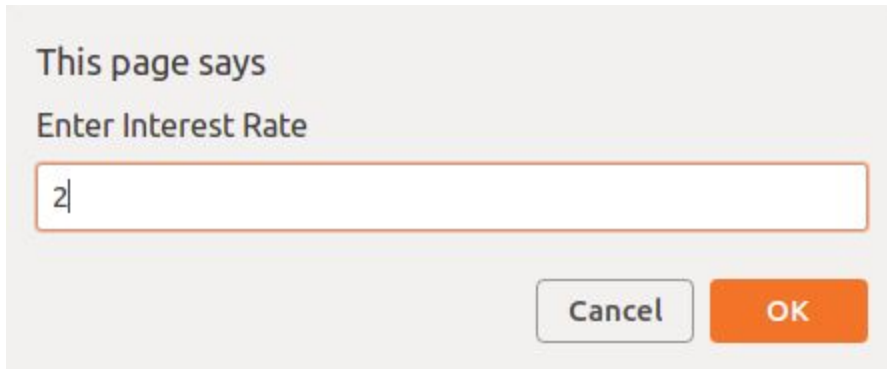
Amount entered by user in the prompt area

A screenshot of a JavaScript prompt dialog box. The title bar says "This page says". The prompt text is "Enter amount". The input field contains the value "1000". There are two buttons at the bottom: "Cancel" and "OK".

Time entered by user in the prompt area

A screenshot of a JavaScript prompt dialog box. The title bar says "This page says". The prompt text is "Enter Time". The input field contains the value "1". There are two buttons at the bottom: "Cancel" and "OK".

Interest rate entered by user in the prompt area



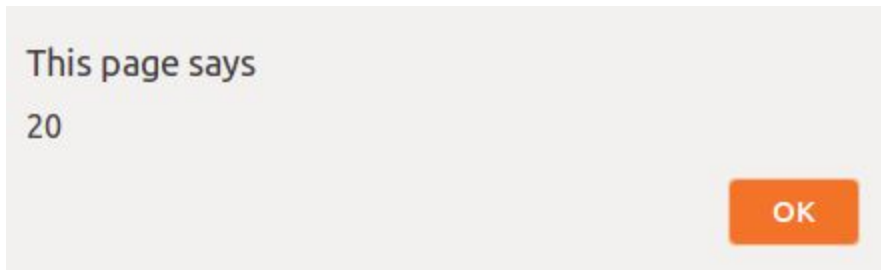
This page says

Enter Interest Rate

2

Cancel OK

Final result ie. Simple Interest by applying Formula



This page says

20

OK

HTML AND JAVASCRIPT CODE

```
<html>
<head>
<title> Question 1 </title>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
</script>
</head>
<body>
<h3> Question 1 Prompt for amount, interest rate and no. of years and
calculate simple interest.
</h3>
<script>
var amount = prompt("Enter amount");
```

```
var rate = prompt("Enter Interest Rate");
var time = prompt("Enter Time");
var si;
si = (amount*rate*time)/100;
alert(si);

</script>
</body>
</html>
```

2. Is palindrome string

Screenshot of Html and Output Recorded

Question 2. is palindrome string

Click here to enter string

Question 2. is palindrome string

Click here to enter string

This page says
Enter Any String

madam|

Cancel

OK

Yaay, it is a palindrome.

Palindrome.html:58

>

HTML AND JAVASCRIPT CODE

```
<html>
<head>
<title>
Question 2 Palindrome String
</title>
</head>
<body>
<h3>
Question 2. is palindrome string
</h3>
<button onclick="myFunction()">Click here to enter string</button>
<script>
function myFunction() {
    var string= prompt("Enter Any String");

    palindrome(string);
    function palindrome(string)
    {    if(string)
        {
            var str=string.toLowerCase();
            var len=string.length;
            var mid=Math.floor(len/2);
            for(var i=0; i<mid;i++)
            {
                if(str[i]!==str[len-1-i])

                    return false;
            }
            return true;
        }
        else return false;
    }

    var result=palindrome(string);
```

```
if(result)
    console.log("Yaay, it is a palindrome.");
else console.log("Sorry. Its not.");
}

</script>
</body>
</html>
```

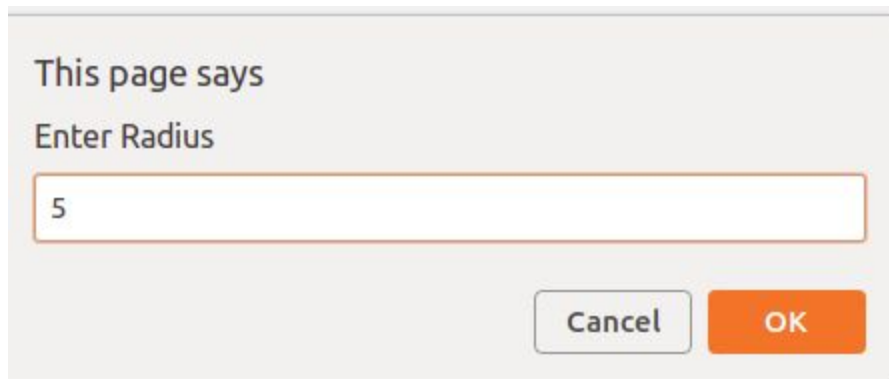
3. Area of circle

Screenshot of Html and Output Recorded

Question 3 Area of Circle

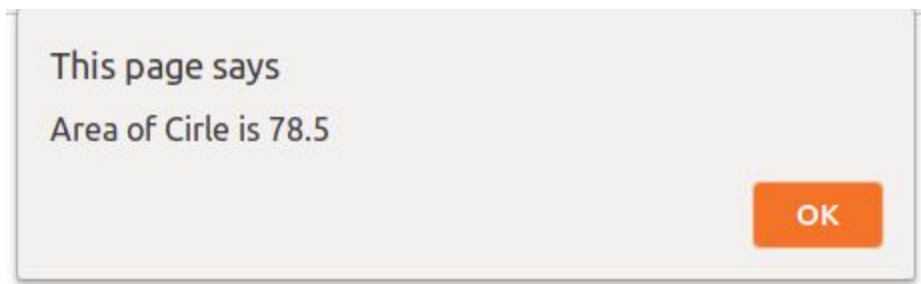
[Click here to enter radius](#)

Radius is entered by user in the prompt area which is created using JavaScript



A screenshot of a JavaScript prompt dialog box. The dialog has a light gray background and a title bar. Inside, the text "This page says" is followed by "Enter Radius". Below this is a text input field containing the number "5". At the bottom right, there are two buttons: "Cancel" and "OK".

Final Area calculated using formula
 $3.14 * r * r$



HTML AND JAVASCRIPT CODE

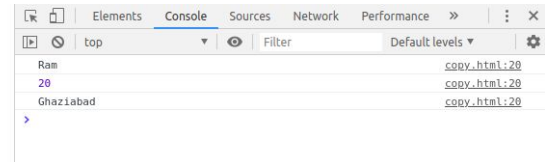
```
<html>
<head>
<title>
Question 3 Area of Circle
</title>
</head>
<body>
<h3>
Question 3 Area of Circle
</h3>
<button onclick="myFunction()">Click here to enter radius
</button>
<script>
function myFunction() {
  var a= prompt("Enter Radius");
  var area;
  area = 3.14*(a*a);
  alert("Area of Circle is"+ " "+area);
}

</script>
</body>
</html>
```

4. Copy information of one object to another and log it to console.

Screenshot of Html and Output Recorded

Question 4 Copy information of one object to another and log it to console.



HTML AND JAVASCRIPT CODE

```
<html>
<head>
<title>
Question 4 Copy information of one object to another and log it to
console.
</title>
</head>
<body>
<h3>
Question 4 Copy information of one object to another and log it to
console.
</h3>
<script>
var obj1 = {
    Name : 'Ram',
    Age : 20,
    Location : 'Ghaziabad'
};
var obj2 = {};
for (i in obj1){
    obj2[i]=obj1[i];
    console.log(obj2[i]);
}
```

```
</script>
</body>
</html>
```

5. create a list of objects of Employee with info as follow :

- Name, age, salary ,DOB
- filter all employees with salary greater than 5000
- group employee on the basis of their age
- fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

a) Screenshot

```
> console.log(Employee)
▼ (5) [{...}, {...}, {...}, {...}, {...}] VM96:1
  ▶ 0: {Name: "Christie", age: 20, Salary: 2000, DOB: "18/09/1998"}
  ▶ 1: {Name: "Nancy", age: 22, Salary: 600, DOB: "18/11/1996"}
  ▶ 2: {Name: "Jonathan", age: 18, Salary: 800, DOB: "18/09/2000"}
  ▶ 3: {Name: "Robert", age: 32, Salary: 20000, DOB: "18/09/1986"}
  ▶ 4: {Name: "Chris", age: 25, Salary: 20000, DOB: "18/09/1993"}
    length: 5
  ▶ __proto__: Array(0)
```

b)

```
list.html:29
▼ (2) [{...}, {...}]
  ▶ 0: {Name: "Robert", age: 32, Salary: 20000, DOB: "18/09/1986"}
  ▶ 1: {Name: "Chris", age: 25, Salary: 20000, DOB: "18/09/1993"}
    length: 2
  ▶ __proto__: Array(0)

  ▶ {Name: "Robert", age: 32, Salary: 20000, DOB: "18/09/1986"} list.html:32
  ▶ {Name: "Chris", age: 25, Salary: 20000, DOB: "18/09/1993"} list.html:32
```


c)

| | |
|---|---------------------|
| | <u>list.html:64</u> |
| ▼ [{...}] ⓘ | |
| ▶ 0: {Name: "Jonathan", age: 18, Salary: 800, DOB: "18/09/2000"} | |
| length: 1 | |
| ▶ __proto__: Array(0) | |
| | <u>list.html:65</u> |
| ▼ (3) [{...}, {...}, {...}] ⓘ | |
| ▶ 0: {Name: "Christie", age: 20, Salary: 2000, DOB: "18/09/1998"} | |
| ▶ 1: {Name: "Nancy", age: 22, Salary: 600, DOB: "18/11/1996"} | |
| ▶ 2: {Name: "Chris", age: 25, Salary: 20000, DOB: "18/09/1993"} | |
| length: 3 | |
| ▶ __proto__: Array(0) | |
| | <u>list.html:66</u> |
| ▼ [{...}] ⓘ | |
| ▶ 0: {Name: "Robert", age: 32, Salary: 20000, DOB: "18/09/1986"} | |
| length: 1 | |
| ▶ __proto__: Array(0) | |

d)

| | |
|---|---------------------|
| | <u>list.html:82</u> |
| ▼ {Name: "Nancy", age: 22, Salary: 3000, DOB: "18/11/1996"} ⓘ | |
| DOB: "18/11/1996" | |
| Name: "Nancy" | |
| Salary: 3000 | |
| age: 22 | |
| ▶ __proto__: Object | |

HTML AND JAVASCRIPT CODE

```
<html>
<head>
<title>
Question 5
</title>
</head>
<body>
<h3>
Question 5
create a list of objects of Employee with info as follow :
<ul>
  <li> Name, age, salary ,DOB </li>
  <li> Filter all employees with salary greater than 5000 <button
onclick="myFunction()">Click on this button to check result</button></li>
  <li> Group employee on the basis of their age <button
onclick="myFunction1()">Click on this button to check result</button></li>
  <li> Fetch employees with salary less than 1000 and age greater than 20.
Then give them an increment 5 times their salary.<button
onclick="myFunction2()">Click on this button to check result</button>
</li>

</ul>
</h3>
<script>
  var Employee = [
    {Name:'Christie',age:20, Salary:2000, DOB:"18/09/1998"},
    {Name:'Nancy',age:22, Salary:600, DOB:"18/11/1996"},
    {Name:'Jonathan',age:18, Salary:800, DOB:"18/09/2000"},
    {Name:'Robert',age:32, Salary:20000, DOB:"18/09/1986"},
    {Name:'Chris',age:25, Salary:20000, DOB:"18/09/1993"}
  ];
  function myFunction(){
var result =Employee.filter(function(s) {return s.Salary>5000;});
```

```
console.log(result);  
for (var a in result)  
{  
    console.log(result[a]);  
}  
}
```

```
function myFunction1() {  
    var age1=new Array();  
    var age2=new Array();  
    var age3=new Array();  
    var index1=0, index2=0, index3=0;  
    for (var a in Employee) {  
        if(Employee[a].age<20)  
        {  
            age1[index1]=Employee[a];  
            index1++;  
        }  
        if(Employee[a].age>18&&Employee[a].age<30)  
        {  
            age2[index2]=Employee[a];  
            index2++;  
        }  
        if(Employee[a].age>30)  
        {  
            age3[index3]=Employee[a];  
            index3++;  
        }  
    }  
    console.log(age1);  
    console.log(age2);  
    console.log(age3);  
}
```

```
function myFunction2() {  
    for (a in Employee)
```

```
{  
    if (Employee[a].Salary<1000&&Employee[a].age>20)  
    {  
        Employee[a].Salary=(Employee[a].Salary)*5;  
        console.log(Employee[a]);  
    }  
}  
}
```

```
</script>
```

```
</body>
```

```
</html>
```