#### **ASSIGNMENT 5**

- 1. Prompt for amount, interest rate and no. of years and calculate simple interest.
- 2. is palindrome string
- 3. Area of circle
- 4. Copy information of one object to another and log it to console.
- 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.

#### **ANSWERS**

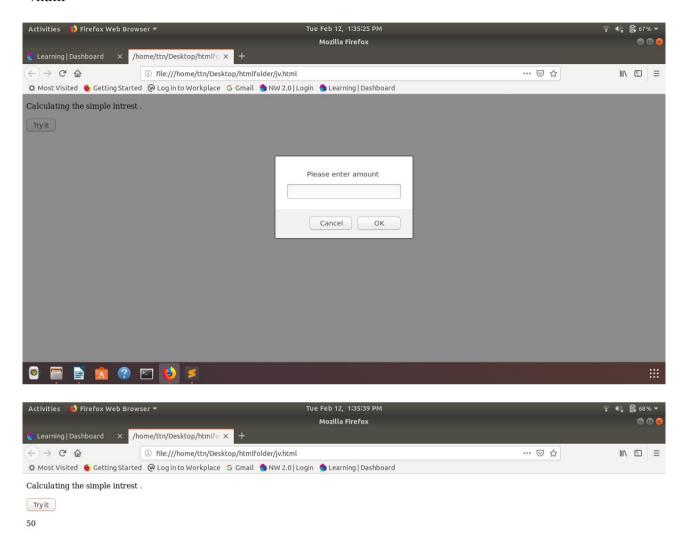
Q.1 Prompt for amount, interest rate and no. of years and calculate simple interest. ANS.

```
<!DOCTYPE html>
<html>
<body>
Calculating the simple intrest .
<button onclick="myFunction()">Try it</button>

<script>
function myFunction()
{
   var amt = prompt("Please enter amount ", " ");
   var years = prompt("Please enter number of years ", " ");
   var rate = prompt("Please enter rate ", " ");
   var si;
   si=((amt*years*rate)/100);
   document.getElementById("demo").innerHTML = si;
}
</script>
```

</body>

### </html>



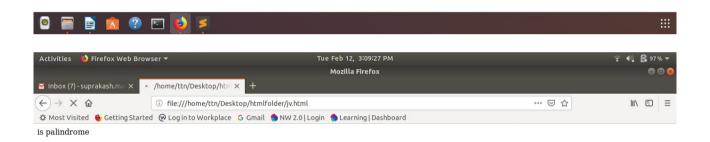


Q2.is palindrome string

ans.<!DOCTYPE html> <html>

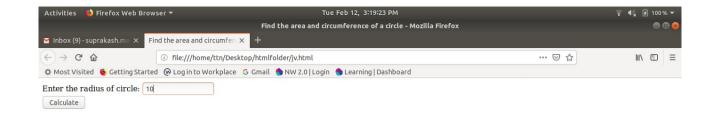
```
<body>
Checking palindrone
<button onclick="palindrome('naman')">Try it</button>
<script>
function palindrome(str) {
  var len = str.length;
  var mid = Math.floor(len/2);
  var flag='false';
  for ( var i = 0; i < mid; i++ ) {
    if (str[i] !== str[len - 1 - i]) {
       flag = 'false';
    }
  }
  if(flag=='false ')
       document.write("not palindrome");
  else
      document.write("is palindrome");
}
</script>
</body>
</html>
```







Q3.Area of circle ans.





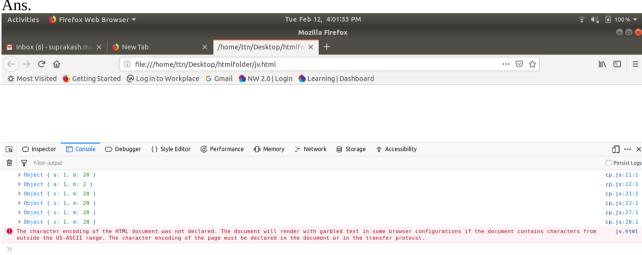
The area of the circle is 314.1592653589793

```
<html>
<html>
<head>
<title>Find the area and circumference of a circle</title>
</head>
<body>
<script language="JavaScript">
function CalculateArea(){
    var radius =document.form1.txtRadius.value;
    document.write("<P>The area of the circle is " + (radius * radius * Math.PI) + "");
}
```

```
</script>
  <form name=form1>
    Enter the radius of circle:
    <input type="text" name="txtRadius" size=10>
    <br>
    <input type="button" value="Calculate" onClick='CalculateArea();'>
</script>
</body>
</html>
```

Q4.Copy information of one object to another and log it to console.





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```

# jv.html

```
<html>
<head>
<title></title>
</head>
<body>
 <script src="cp.js"></script>
```

</body> </html>

## cp.js

//deep copying

```
obj =
{
    a: 1,
    b: 2
}
newObj = JSON.parse(JSON.stringify(obj));
obj.b=20;
console.log(obj);
console.log(newObj);

//shallow copy
a = {s:1 , m : 2}
b=a;
console.log(a);
console.log(b);
b.m=20;
console.log(b);
console.log(a);
```

Q5.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.

Ans.

A]

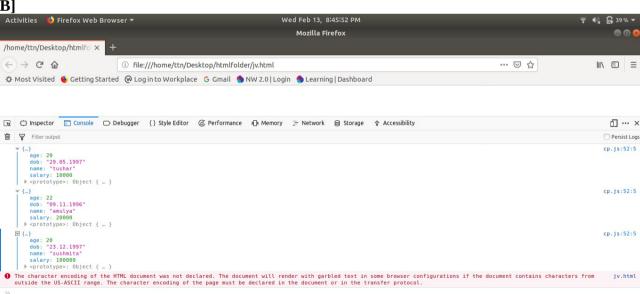
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  cp.js:43:2
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jv.html
<html>
<head>
<title></title>
</head>
<body>
 <script src="cp.js"></script>
</body>
</html>
```

# cp.js

```
"name": "amulya",
 "age": 22,
 "salary": 20000,
 "dob": "09.11.1996"
},
 "name": "sushmita",
 "age": 20,
 "salary": 100000,
 "dob": "23.12.1997"
},
"name" : "mit",
 "age": 25,
 "salary" : 900 ,
"dob" : "23.4.1993"
]
```

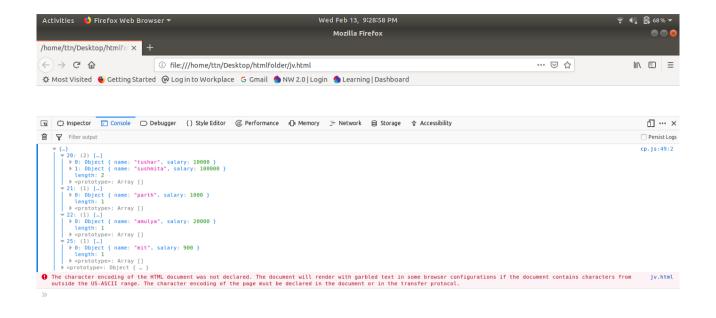
### console.log(list);





```
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list =
[
 "name": "tushar",
```

```
"age": 20,
 "salary": 10000,
 "dob": "29.05.1997"
},
 "name": "parth",
 "age": 21,
 "salary": 1000,
 "dob": "23.05.1999"
},
 "name" : "amulya",
 "age": 22,
 "salary": 20000,
 "dob": "09.11.1996"
},
 "name" : "sushmita",
 "age": 20,
 "salary": 100000,
 "dob" : "23.12.1997"
},
"name" : "mit",
 "age": 25,
 "salary": 900,
 "dob": "23.4.1993"
]
//filter all employees with salary greater than 5000
function chksalary()
{
       for(var i=0;i<list.length;i++)</pre>
       {
              if(list[i].salary>5000)
                      console.log(list[i]);
chksalary();
```



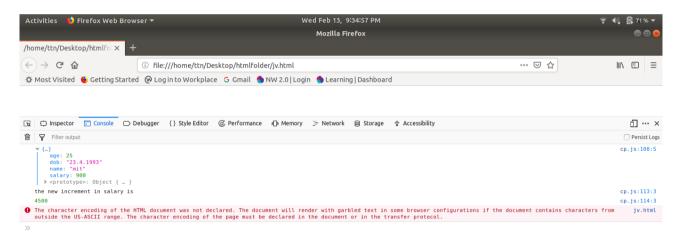
```
🔚 📴 🛕 🕐 🔁 💋 🥦
list =
 "name": "tushar",
 "age": 20,
 "salary": 10000,
 "dob": "29.05.1997"
},
 "name": "parth",
 "age": 21,
 "salary": 1000,
 "dob": "23.05.1999"
},
 "name": "amulya",
 "age": 22,
 "salary": 20000,
 "dob": "09.11.1996"
},
 "name": "sushmita",
 "age": 20,
 "salary": 100000,
 "dob": "23.12.1997"
},
{
```

```
"name" : "mit",
  "age" : 25 ,
  "salary" : 900 ,
  "dob" : "23.4.1993"
}

const result = {};

for(const {name, age, salary,dob} of list) {
  if(!result[age]) result[age] = [];
  result[age].push({ name, salary });
}
console.log(result);
```

**D**] fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.



```
list =
[
{
    "name" : "tushar",
    "age" : 20,
    "salary" : 10000,
    "dob" : "29.05.1997"
},
{
    "name" : "parth",
```

```
"age": 21,
 "salary": 1000,
 "dob": "23.05.1999"
},
 "name" : "amulya",
 "age": 22,
 "salary": 20000,
 "dob": "09.11.1996"
},
 "name": "sushmita",
 "age": 20,
 "salary": 100000,
 "dob": "23.12.1997"
},
"name" : "mit",
 "age": 25,
 "salary": 900,
 "dob": "23.4.1993"
]
function lastsal()
       for (var i=0;i<list.length;i++)</pre>
               if(list[i].salary<1000&&list[i].age>20)
               {
                      /*list[i].salary=(list[i].salary)*5;*/
                      console.log(list[i]);
                      break;
               }
       console.log('the new increment in salary is' );
       console.log(list[i].salary*5);
}
lastsal();
```