

Q1.Prompt for amount, interest rate and no. of years and calculate simple interest.

Answer:



```
<!DOCTYPE html>
<html>
  <head>
    <title>Jscript Q1</title>

    <script>
      function calculate()
      {
        p = document.getElementById("p").value;
        n = document.getElementById("n").value;
        r = document.getElementById("r").value;
        result = document.getElementById("result");

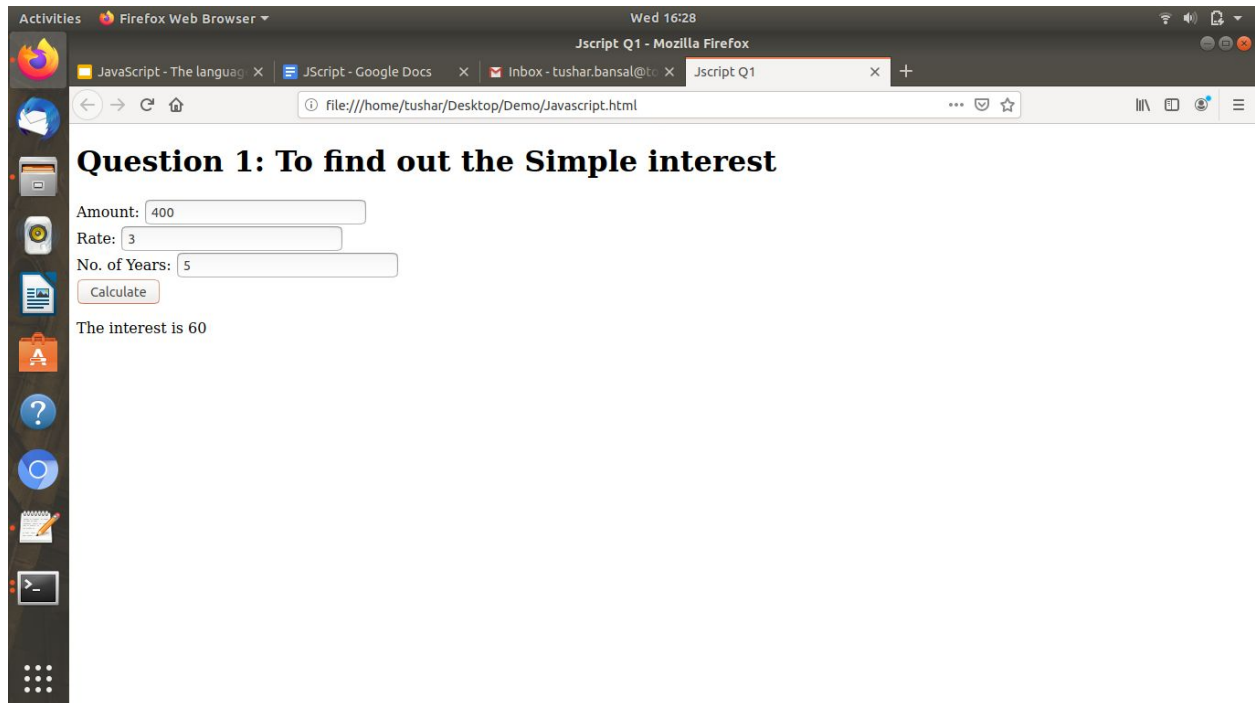
        result.innerHTML = "The interest is " + (p*n*r/100);
      }
    </script>
  </head>

  <body>
    <h1>Question 1: To find out the Simple interest </h1>

    Amount: <input id="p"><br/>
    Rate: <input id="r"><br/>
    No. of Years: <input id="n"><br/>

    <button onclick="calculate()">Calculate</button>

    <p id="result"></p>
  </body>
</html>
```



Question 1: To find out the Simple interest

Amount:

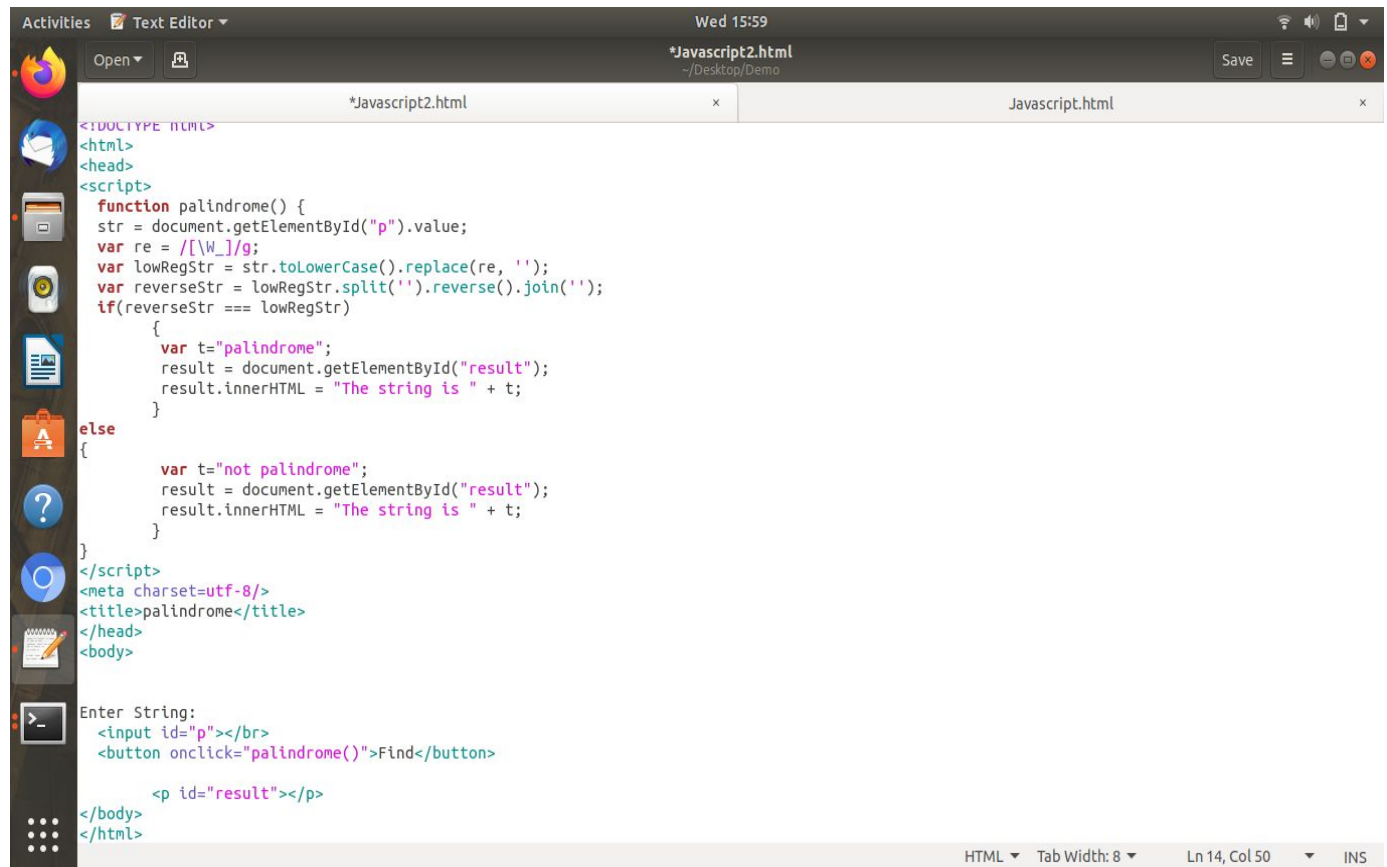
Rate:

No. of Years:

The interest is 60

Q2.Find whether palindrome is string.

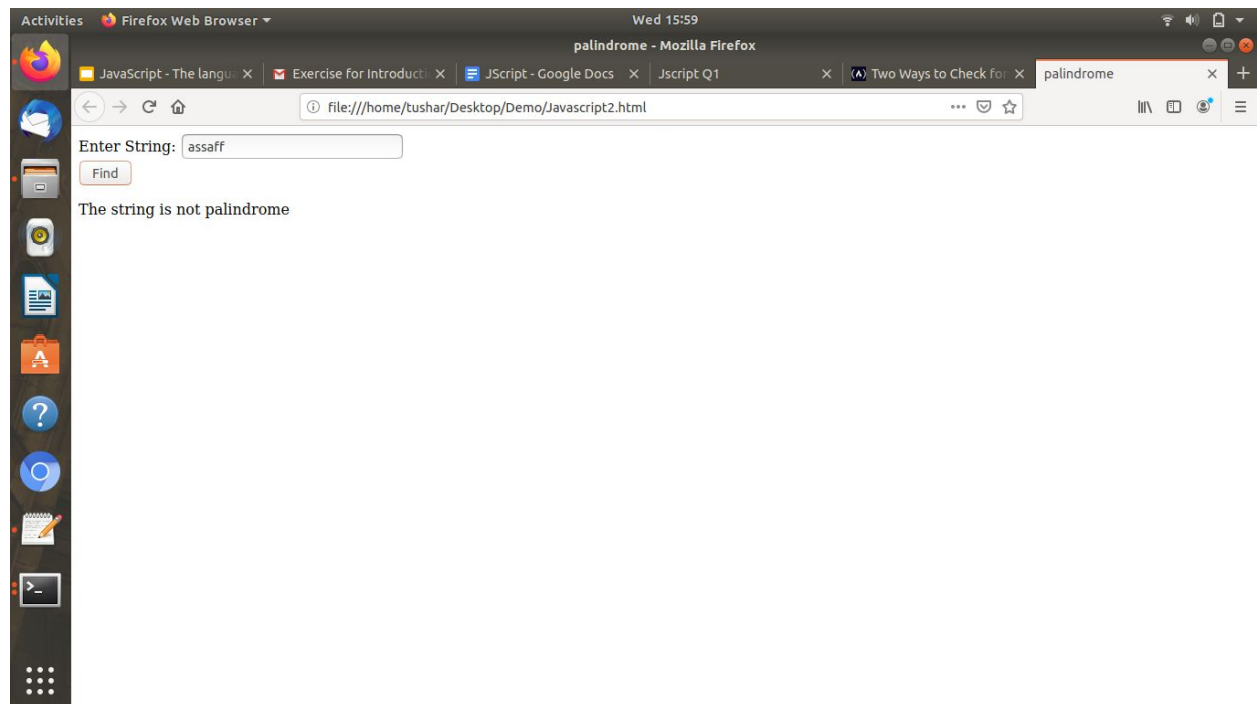
Answer:



The screenshot shows a text editor window titled "Text Editor" with two tabs: "*Javascript2.html" and "Javascript.html". The code in the editor is as follows:

```
<!DOCTYPE html>
<html>
<head>
<script>
function palindrome() {
  str = document.getElementById("p").value;
  var re = /[^\w_]/g;
  var lowRegStr = str.toLowerCase().replace(re, '');
  var reverseStr = lowRegStr.split('').reverse().join('');
  if(reverseStr === lowRegStr)
  {
    var t="palindrome";
    result = document.getElementById("result");
    result.innerHTML = "The string is " + t;
  }
else
{
  var t="not palindrome";
  result = document.getElementById("result");
  result.innerHTML = "The string is " + t;
}
}
</script>
<meta charset=utf-8/>
<title>palindrome</title>
</head>
<body>
Enter String:
<input id="p"></br>
<button onclick="palindrome()">Find</button>

<p id="result"></p>
</body>
</html>
```



Q3.Find the area of the circle.

Answer:



The screenshot shows a text editor window titled 'Javascript3.html' with the following code:

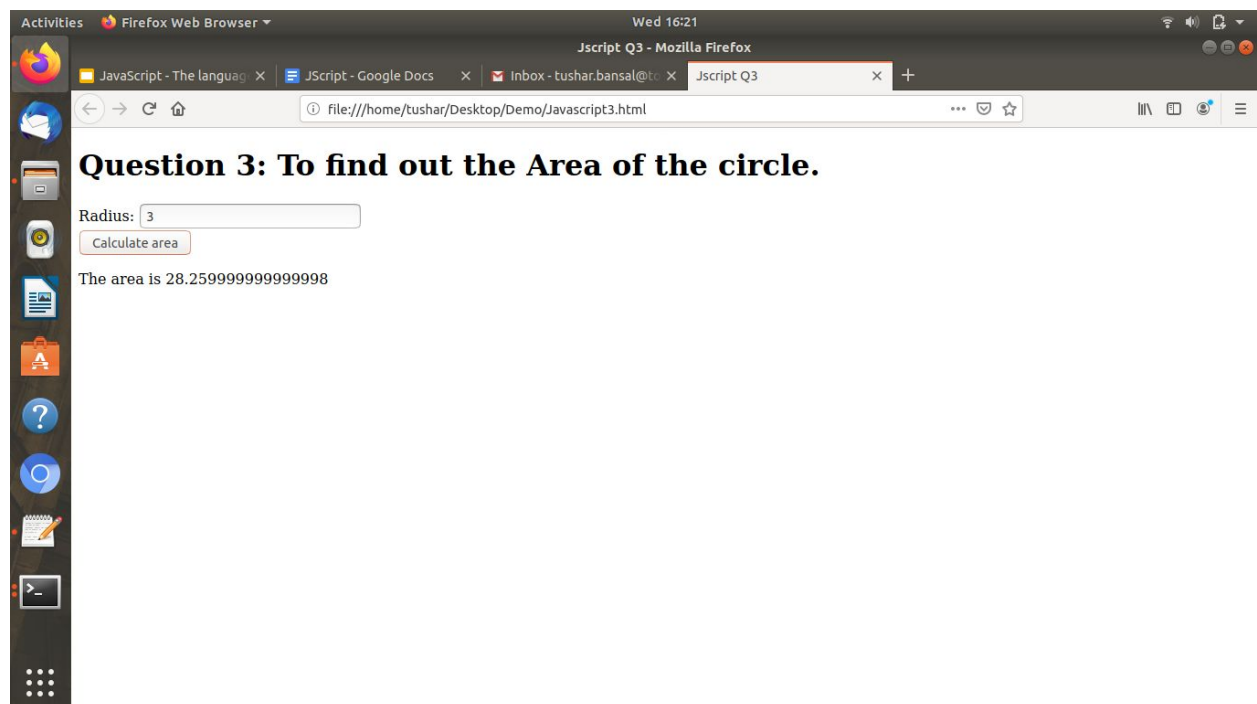
```
<!DOCTYPE html>
<html>
  <head>
    <title>Jsript Q3</title>
    <script>
      function calculate()
      {
        r = document.getElementById("r").value;
        result = document.getElementById("result");

        result.innerHTML = "The area is " + (3.14*r*r);
      }
    </script>
  </head>
  <body>
    <h1>Question 3: To find out the Area of the circle. </h1>

    Radius: <input id="r"><br/>

    <button onclick="calculate()">Calculate area</button>

    <p id="result"></p>
  </body>
</html>
```



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

Answers:



The screenshot shows a text editor window titled 'q4.js' with the following JavaScript code:

```
function log_them() {  
  const data = {  
    'fname' : 'Tushar',  
    'lname' : 'Bansal',  
    'email' : 'tushar.bansal@tothenew.com'  
  };  
  console.log("Original data from 'object: data'",JSON.stringify(data));  
  const data_copy=data;  
  console.log("copied data from 'object: data_copy'",JSON.stringify(data_copy));  
}  
  
log_them();
```



The screenshot shows a terminal window with the following output:

```
tushar@tushar:~/Desktop/Demo$ node q4.js  
Original data from 'object: data' {"fname":"Tushar","lname":"Bansal","email":"tushar.bansal@tothenew.com"}  
copied data from 'object: data copy' {"fname":"Tushar","lname":"Bansal","email":"tushar.bansal@tothenew.com"}  
tushar@tushar:~/Desktop/Demo$
```

Q5.create a list of objects of Employee with info as follow:

1.Name, age, salary ,DOB.

2.filter all employees with salary greater than 5000.

3.group employee on the basis of their age.

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

Answer:

```
const Employee={
  'name':["Tushar Bansal","x-avier","yung","charu","prateek","harman","ram"],
  'age':[20,60,50,14,16,25,55],
  'salary':[6000,8000,8500,500,200,500,900],
  'DOB':["10-12-1999","22-12-1959","3-3-1969",2-3-2005,1-2-2003,3-4-1994,6-8-1974]
};
```

```
console.log("part-1:Javascript to display:name,age,salary,DOB");
for(i=0;i<=6;i++)
{
  console.log("
  Name-"+Employee.name[i]+" ,age-"+Employee.age[i]+" ,salary-"+Employee.salary[i]+" ,DOB-"+Employee.DOB[i]);
}
```

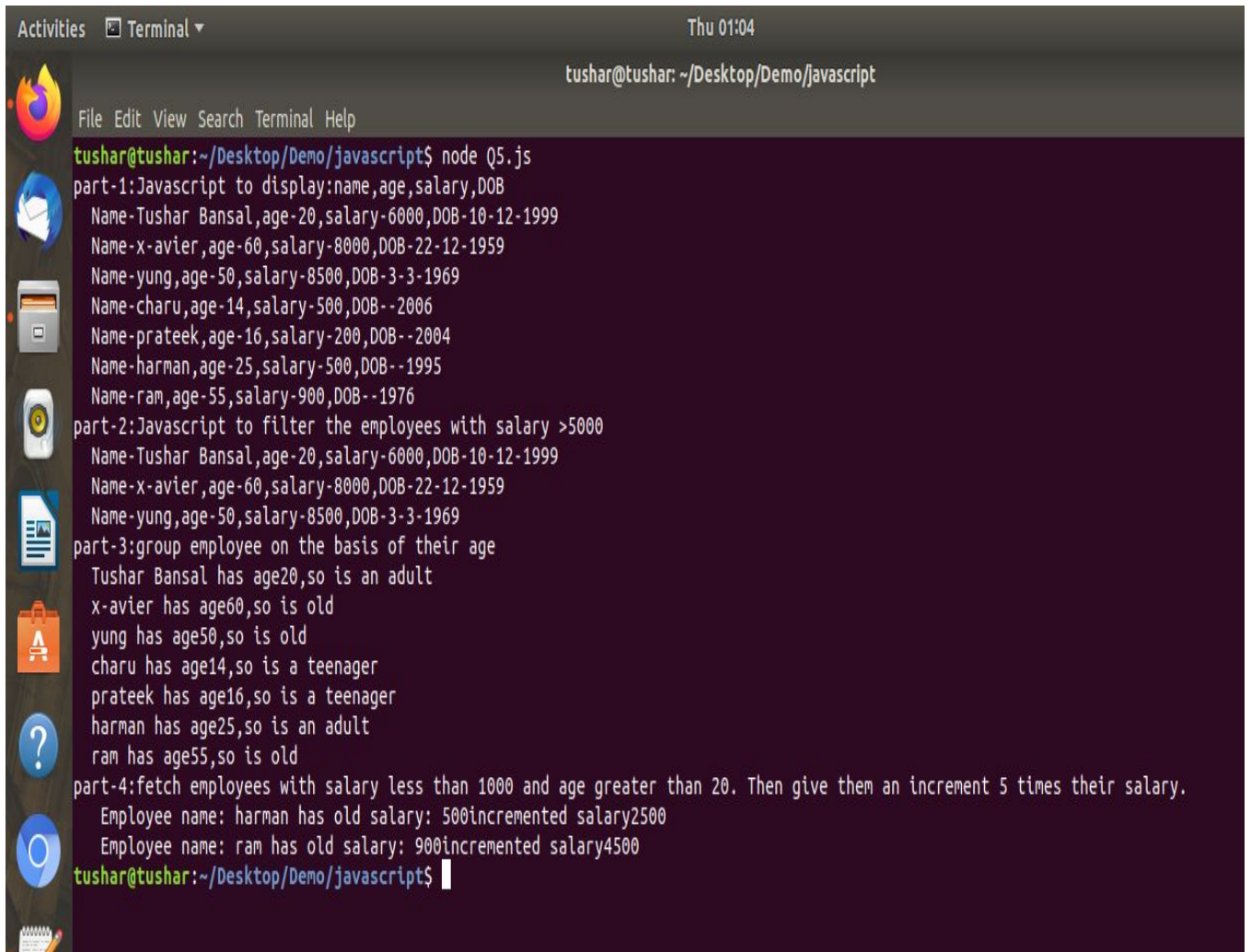
```
console.log("part-2:Javascript to filter the employees with salary >5000");
for(i=0;i<=6;i++)
{
  if(Employee.salary[i]>5000)
  {
    console.log("
    Name-"+Employee.name[i]+" ,age-"+Employee.age[i]+" ,salary-"+Employee.salary[i]+" ,DOB-"+Employee.DOB[i]);
  }
}
```

```
console.log("part-3:group employee on the basis of their age");
for(i=0;i<=6;i++)
{
  if(Employee.age[i]<=18)
  console.log(" "+Employee.name[i]+" has age"+Employee.age[i]+" ,so is a teenager");
  else if(Employee.age[i]>18 && Employee.age[i]<=40)
```

```

console.log(" "+Employee.name[i]+" has age"+Employee.age[i]+",so is an adult");
else if(Employee.age[i]>40)
console.log(" "+Employee.name[i]+" has age"+Employee.age[i]+",so is old");
}
console.log("part-4:fetch employees with salary less than 1000 and age greater than 20. Then
give them an increment 5 times their salary.");
for(i=0;i<=6;i++)
{
if(Employee.salary[i]<1000 && Employee.age[i]>=20)
{
console.log(" Employee name: "+Employee.name[i]+" has old salary:
"+Employee.salary[i]+"incremented salary"+5*(Employee.salary[i]));
}
}
}

```



Activities Terminal Thu 01:04

tushar@tushar: ~/Desktop/Demo/javascript

```

tushar@tushar:~/Desktop/Demo/javascript$ node Q5.js
part-1:Javascript to display:name,age,salary,DOB
Name-Tushar Bansal,age-20,salary-6000,DOB-10-12-1999
Name-x-avier,age-60,salary-8000,DOB-22-12-1959
Name-yung,age-50,salary-8500,DOB-3-3-1969
Name-charu,age-14,salary-500,DOB--2006
Name-prateek,age-16,salary-200,DOB--2004
Name-harman,age-25,salary-500,DOB--1995
Name-ram,age-55,salary-900,DOB--1976
part-2:Javascript to filter the employees with salary >5000
Name-Tushar Bansal,age-20,salary-6000,DOB-10-12-1999
Name-x-avier,age-60,salary-8000,DOB-22-12-1959
Name-yung,age-50,salary-8500,DOB-3-3-1969
part-3:group employee on the basis of their age
Tushar Bansal has age20,so is an adult
x-avier has age60,so is old
yung has age50,so is old
charu has age14,so is a teenager
prateek has age16,so is a teenager
harman has age25,so is an adult
ram has age55,so is old
part-4:fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.
Employee name: harman has old salary: 500incremented salary2500
Employee name: ram has old salary: 900incremented salary4500
tushar@tushar:~/Desktop/Demo/javascript$

```

