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

```html
<html>
    <head>
        <title>Web App for Simple Interest Calculation</title>

        <script src="Q1.js">

        </script>
    </head>

    <body>
        <h1>Simple Interest Calculation</h1>

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

        <input type="button" onClick="calculate()" value="calc"> </button>
    </body>
</html>
```
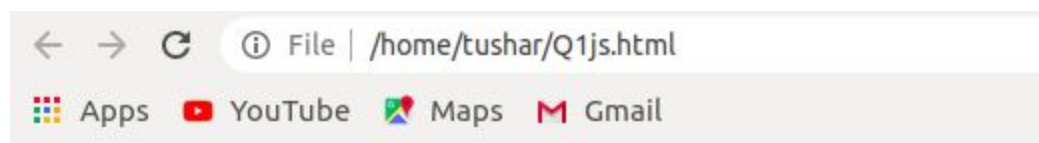
```javascript
function calculate()
        {
            var p = document.getElementById("p").value;
            var r = document.getElementById("r").value;
            var n = document.getElementById("n").value;
            result = document.getElementById("result").value=(p*n*r/100);

        }
```

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Simple Interest Calculation

Amount: 10000

Rate: 5

No. of Years: 2

Result: 1000

calc

Q2 is palindrome string.

```html
<html>
<head>
<title> Web page for Palindrome </title>

<script src="Q2.js">

</script>
</head>

<body>

<h2> is Palindrome string </h2>

enter number:<input type="text" id="txt"><br/>
result:<input type="text" id="result"><br/>

<input type="button" onClick="func()" value="Check"> </button>

</body>
</html>
```

```javascript
function func(){
var s=document.getElementById("txt").value;
var i=0;
var flag=0;
var j=s.length-1;
        while(i<=j)
                {
                if(s[i]!=s[j])
                        {
                        flag=1;
                        break;
                        }
                i++;
                j--;
                }
if(flag!=0)
        {
        document.getElementById("result").value=("No");
        }
else
        {
        document.getElementById("result").value=("yes");
        }
}
```

is Palindrome string

enter number: tushar
result: No
Check

Q3 Area of circle

```html
<html>
<head>
<title> web page for area of circle </title>

<script src = "Q3.js">
|
</script>
</head>

<body>
<h2> Area of circle </h2>

Enter radius: <input type="text" id="r"><br/>
Result: <input type="text" id="result"><br/>

<input type="button" onClick="calculate()" value="calc"> </button>

</body>
</html>
```

```javascript
function calculate()
        {
            var rad= document.getElementById("r").value;
            result = document.getElementById("result").value=(3.14*rad*rad);

}
```

Thunderbird Mail

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Area of circle

Enter radius: 10
Result: 314
calc

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

```
> let obj1 = {
     a: 1,
     b: 2,
  };
  let obj2=obj1;
  console.log(obj2);

  ▶ {a: 1, b: 2}

<· undefined
> |
```

.

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.

```
> let obj1={
  'Name':["Tushar Garg","Veena garg","Naresh Chand garg","anmol dua","sachin gupta"],
  'Age':["21","55","65","22","24"],
  'Salary':["500","10000","900","100","500"],
  'DOB':["01/11/1997","10/03/1956","26/12/1953","1/08/1997","11/02/1995"]
  };
  console.log(obj1);

  console.log("Employees with salary greater than 5000");
      for(i=0;i<obj1.Salary.length;i++)
  {
          if(obj1.Salary[i]>5000)
              console.log(obj1.Name[i],obj1.Salary[i]);
  }

  console.log("Employees less than 25");
      for(i=0;i<obj1.Age.length;i++)
  {
          if(obj1.Age[i]<25)
              console.log(obj1.Name[i]);
  };
  console.log("Employees > 25 and < 50");
      for(i=0;i<obj1.Age.length;i++)
  {
          if(obj1.Age[i]>=25 && obj1.Age[i]<50)
              console.log(obj1.Name[i]);
  }
  console.log("Emplyoees > 50 and < 100");
      for(i=0;i<obj1.Age.length;i++)
  {
          if(obj1.Age[i]>50 && obj1.Age[i]<=100)
              console.log(obj1.Name[i]);
```

```
{
        if(obj1.Age[i]>50 && obj1.Age[i]<=100)
            console.log(obj1.Name[i]);

}



console.log("employees salary<1000 & age>20");
    for(i=0;i<obj1.Salary.length;i++)
{
        if(obj1.Salary[i]<1000 && obj1.Age[i]>20)
            {console.log(obj1.Name[i]);
            console.log("Updated sal: "+obj1.Salary[i]*5);}
}
```

▶ {Name: Array(5), Age: Array(5), Salary: Array(5), DOB: Array(5)}	VM354:7
Employees with salary greater than 5000	VM354:9
Veena garg 10000	VM354:13
Employees less than 25	VM354:16
Tushar Garg	VM354:20
anmol dua	VM354:20
sachin gupta	VM354:20
Employees > 25 and < 50	VM354:22
Emplyoees > 50 and < 100	VM354:28
Veena garg	VM354:32
Naresh Chand garg	VM354:32
employees salary<1000 & age>20	VM354:39
Tushar Garg	VM354:43
Updated sal: 2500	VM354:44
Naresh Chand garg	VM354:43
Updated sal: 4500	VM354:44
anmol dua	VM354:43
Updated sal: 500	VM354:44
sachin gupta	VM354:43
Updated sal: 2500	VM354:44

‹ undefined