

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

Answer:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>Learning JS</title>
</head>
<body>

  <h4>Let's calculate Simple Interest</h4>
  <p> Amount= <span id="amount"></span></p>
  <p> Interest Rate= <span id="interest_rate"></span></p>
  <p> Number of Years= <span id="no_of_years"></span></p>
  <p>Therefore,</p>
  <p>Simple Interest = <span id="simple_interest"></span></p>
  <script src="app.js" charset="utf-8"></script>

</body>
</html>
```

```
(function() {
  'use strict';

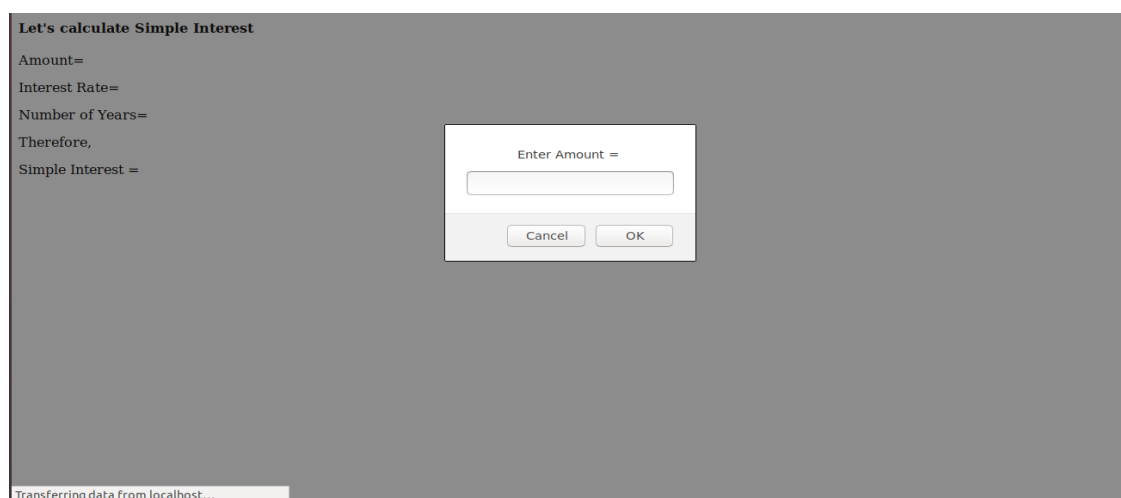
  var a = prompt( message: "Enter Amount = ");
  while(a<0 || isNaN(a)){
    var a = prompt( message: "Please enter valid Amount = ");
  }
  document.getElementById( "amount").innerHTML = a;

  var i = prompt( message: "Enter Interest Rate = ");
  while(i<0 || isNaN(i)){
    var i = prompt( message: "Please enter valid Interest Rate = ");
  }
  document.getElementById( "interest_rate").innerHTML = i;

  var y = prompt( message: "Enter Number of Years = ");
  while(y<0 || isNaN(y)){
    var y = prompt( message: "Please enter valid Number of Years = ");
  }
  document.getElementById( "no_of_years").innerHTML = y;

  function si (a, i, y) {
    return a*i*y / 100;
  }
  document.getElementById( "simple_interest").innerHTML = si(a,i,y);
})();
```

Output:



Let's calculate Simple Interest

Amount= 2

Interest Rate= 3

Number of Years= 4

Therefore,

Simple Interest = 0.24

2. is palindrome string

Answer:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Question 2</title>
</head>
<body>
  <h1>The entered string is:</h1>
  <h2 id="string"></h2>
  <h3>Is it a pallindrome?</h3>
  <h3 id="answer"></h3>
<script charset="utf-8">
  (function() {
    'use strict';
    var s=prompt("Enter a string");
    document.getElementById("answer").innerHTML=palindrome(s);
    document.getElementById("string").innerHTML=s;

    function palindrome(str) {
      var str1=str.toLowerCase();
      var str2=str1.split('').reverse().join('');
      return str === str2;
    }
  })();
</script>
</body>
</html>
```

Output:

The entered string is:

abcba

Is it a pallindrome?

true

3. Area of circle

Answer:

```
question3.html question4.html question5.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Question 3</title>
</head>
<body>
  <h1>Area of Circle</h1>
  <hr/>
  <p>Radius = <span id = "r"></span></p>
  <p>Area = <span id="area"></span></p>
  <script charset="utf-8">
    (function() {
      'use strict';
      var r=prompt("Enter the radius of circle:");
      document.getElementById("r").innerHTML=r;

      var a= r * r * Math.PI;
      document.getElementById("area").innerHTML=a;
    })();
  </script>
</body>
</html>
```

Output:

Area of Circle

Radius =

Area =

Enter the radius of circle:

Cancel OK

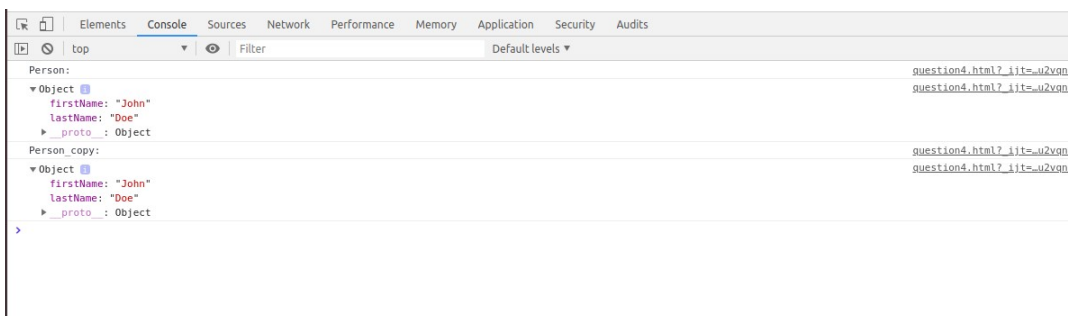
Area of Circle

Radius = 02

Area = 12.566370614359172

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

Answer:



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.

Answer:

Employees

Employees with salary greater than 5000

- **Mehak** : salary=7000
- **Sagar** : salary=10000

Employees group on the basis of age

- 21 : **Mehak,Sagar**
- 22 : **Sid,Gaurav**
- 25 : **Yatin**

Salary increment

- **Yatin** : salary incremented to=5000