JAVASCRIPT ASSIGNMENT

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

CODE:-

5

Cancel

```
<!DOCTYPE html>
        <html lang="en">
        <head>
            <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
            <title>Document</title>
        <script>
        function simpleinterest(){
            var a= prompt('Please enter Amount');
var r = prompt('Please enter Rate');
var t = prompt('Please enter No. of years');
            var p = (a/(1 + r*t))
            var si = (p*r*t)/100;
            document.getElementById('si').innerHTML="Simple Interest (calculated anually) is: "+si;
        </head>
        <body>
            <button onclick="simpleinterest()">Simple Interest</button>
            </body>
        </html>
                                                                                                                          HTML
      OUTPUTS:-
      OUTPUT 1.)
                                                                            OUTPUT 2.)
 This page says
                                                                         This page says
 Please enter Amount
                                                           -->
                                                                          Please enter No. of years
  1000
                                                                           4
                                Cancel
                                            ОК
                                                                                                             Cancel
                                                                                                                          ок
       OUTPUT 3.)
                                                                            OUTPUT 4.)
                                                                               Simple Interest
This page says
                                                           -->
Please enter Rate
                                                                              Simple Interest (calculated anually) is: 9.523809523809524
```

2. is palindrome string.

CODE:-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
<script>
function palindrome(str){
    var str = prompt('Please enter the String');
var len = str.length;
var mid = Math.floor(len/2);
for ( var i = 0; i < mid; i++ ) {
    if (str[i] !== str[len - 1 - i]) {
        document.write("FALSE");
        return false;
    }
document.write("TRUE");
return true;
}
</script>
</head>
<body>
    <button onclick="palindrome()">Click to Check Palindrome</putton>
</body>
</html>
```

OUTPUT 1.)

Click to Check Palindrome

OUTPUTS:-

OUTPUT 2.)

OUTPUT 3.)



TRUE

3.Area of circle.

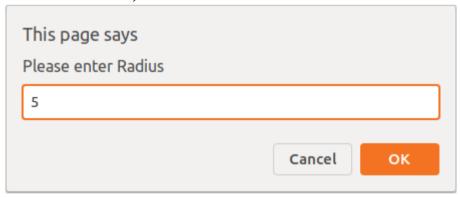
CODE:-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
<script>
function area(){
    var radius = prompt('Please enter Radius');
    var areaCircle = Math.PI * radius * radius;
            document.write("AREA OF CIRCLE IS"+ areaCircle);
</script>
</head>
<body>
    <button onclick="area()">Calculate area of the cricle</putton>
</body>
</html>
```

OUTPUTS:- OUTPUT 1.)

Calculate area of the cricle

OUTPUT 2.)



OUTPUT 3.)

AREA OF CIRCLE IS78.53981633974483

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

CODE:-

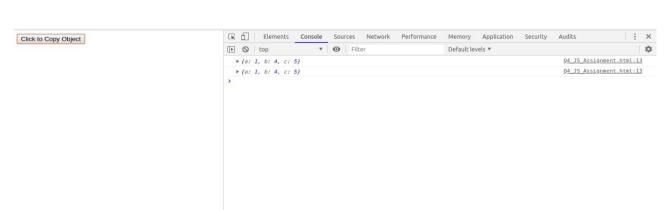
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
<script>
function CopyObject(){
    const obj1 = { a: 1, b: 2 };
const obj2 = { b: 4, c: 5 };
const output = Object.assign(obj1, obj2);
    console.log(output);
</script>
</head>
<body>
     <button onclick="CopyObject()">Click to Copy Object</button>
</body>
</html>
```

OUTPUTS:-

OUTPUT 1.)

Click to Copy Object

OUTPUT 2.)



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

CODE:-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>Document</title>
function Employee(){
    function filter(){
var filteredList = list.filter(res=>{
   if(res.salary>5000)
   return true;
     console.log(filteredList)
     function fetch(){
     var fetchedList = list.filter(res=>{
   if(res.salary<5000 && res.age>20){
   res.salary=res.salary*5;
          return true:
     else
          return false;
     })
     console.log(fetchedList)
     function group(){
    var groupList = list.reduce({r,a} => {
        r[a.age] = [...r[a.age] || [], a];
}
          },{});
console.log(groupList);
  group();
filter();
  fetch();
/script>
</head>
<body>
     <button onclick="Employee()">Click to Fetch Data</button>
</body>
```

• Name, age, salary ,DOB.

```
Var list = [
{name: 'Siddhant', age: 21, salary: 999, DOB: 25-08-1998},
{name: 'Apoorva', age: 14, salary: 5000, DOB: 25-08-1998},
{name: 'Bhupesh', age: 31, salary: 5000, DOB: 25-08-1998},
{name: 'Jay', age: 22, salary: 200, DOB: 25-08-1998},
{name: 'Varun', age: 12, salary: 300, DOB: 25-08-1998},
{name: 'Avi', age: 21, salary: 800, DOB: 25-08-1998},
{name: 'Aditiya', age: 21, salary: 8000, DOB: 25-08-1998},
{name: 'Aariv', age: 25, salary: 8000, DOB: 25-08-1998},
{name: 'Devansh', age: 16, salary: 800, DOB: 25-08-1998},
{name: 'Saket', age: 14, salary: 2000, DOB: 25-08-1998}];
```

• filter all employees with salary greater than 5000.

OUTPUT 2.):-

```
▼ (2) [{…}, {…}] 

▶ 0: {name: "Aditiya", age: 21, salary: 8000, DOB: -1981}

▶ 1: {name: "Aariv", age: 25, salary: 8000, DOB: -1981}

length: 2

▶ _ proto_: Array(0)
```

• group employee on the basis of their age.

OUTPUT 3.):-

```
Q5 JS Assignment.html:52
▼ {12: Array(1), 14: Array(2), 16: Array(1), 21: Array(3), 22: Array(1), 25: Array(2), 31: Array(1)} [
 ▼ 12: Array(1)
   ▶ 0: {name: "Varun", age: 12, salary: 300, DOB: -1981}
     length: 1
 length: 2
 * 16: Array(1)

▶ 0: {name: "Devansh", age: 16, salary: 800, DOB: -1981}
     length: 1
 ▶__proto__:

▼21: Array(3)
               : Array(0)
   b0: {name: "Siddhant", age: 21, salary: 4995, DOB: -1981}
b1: {name: "Avi", age: 21, salary: 4000, DOB: -1981}
b2: {name: "Aditiya", age: 21, salary: 8000, DOB: -1981}
 ▶__proto__:

▼22: Array(1)
               : Array(0)
   ▶0: {name: "Jay", age: 22, salary: 1000, DOB: -1981}
length: 1
 length: 2
               : Array(0)
 y 31: Array(1)

▶ 0: {name: "Bhupesh", age: 31, salary: 5000, DOB: -1981}
     length: 1
 ▶ __proto__: Array(θ)
▶ __proto__: Object
```

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

OUTPUT 4.):-

```
▼ (4) {{...}, {...}, {...}, {...}, {...}} □

▶ 0: {name: "Siddhant", age: 21, salary: 4995, DOB: -1981}

▶ 1: {name: "Jay", age: 22, salary: 1000, DOB: -1981}

▶ 2: {name: "Avi", age: 21, salary: 4000, DOB: -1981}

▶ 3: {name: "Nitin", age: 25, salary: 4000, DOB: -1981}

length: 4

▶ _ proto _: Array(0)
```

CONSOLE:-