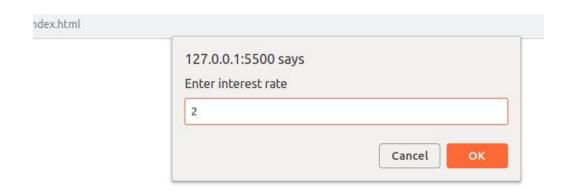
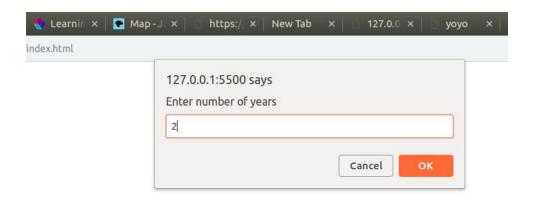
Exercise Introduction To JavaScript

- 1. Prompt for amount, interest rate and no. of years and calculate simple interest.
- A. Code:

```
q1.js >>
var am t= prompt("Enter Amount");
var interestRate = prompt("Enter interest rate");
var time = prompt("Enter number of years");
var simpleInterest = (amt*interestRate*time)/100;
document.body.innerHTML = "Simple Interest is "+ simpleInterest;
Output>>
```









Simple Interest is 3.12

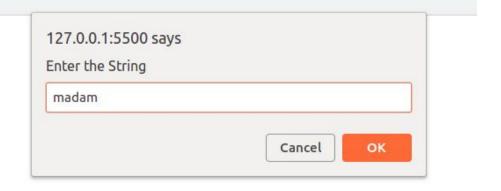
2. is palindrome string

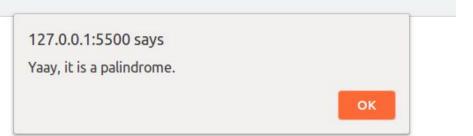
A. Code:

```
q2.js >>
function ispalindrome(string)
{ if(string)
   {
       var str=string.toLowerCase();
       var len=string.length;
       var mid=Math.floor(len/2);
        for(var i=0; i<mid;i++)</pre>
       {
           if(str[i]!==str[len-1-i])
              return false;
       }
       return true;
   }
   else return false;
  }
```

```
var string=prompt("Enter the String ");
var result=ispalindrome(string);
if(result)
  alert("Yaay, it is a palindrome.");
else alert("Sorry. Its not.");
```

Output>>

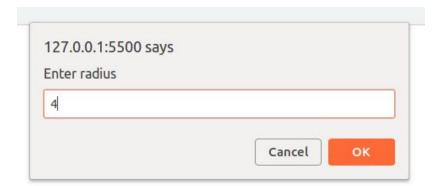




3. Area of circle.

A. Code:

```
q3.js >>
var radius= prompt("Enter radius");
alert("The area is "+ Math.pow(radius,2)*3.14 );
Output>>
```





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

A. Code>>

```
q4.js >>
var object1={
   name: "Yoyo",
   age: 21
};
var object2=object1;
console.log(object2);
```

Output>>

- 5. create a list of objects of Employee with info as follow:
 - o Name, age, salary ,DOB
- A. Code for this question is in *directory q5(q5.html, q5.js, interact.js)*.

Function for 'add button click' >>

```
var Employee=[]; //declaring array Employee

submit.addEventListener('click', ()=>{

    //defining object emp

    var emp={

        Name: name.value,

        Age:age.value,

        Salary:salary.value,

        Dob:dob.value

    };

Employee.push(emp); //pushing object emp in array Employee

});
```



Add Object details:

Name:	Age:	Salary:	DoB:	Add

- Mahesh Inder 21 15000 19-04-1997
- Yoyo 19 6000 1998

o filter all employees with salary greater than 5000

```
A. function filterSalaryGreaterThan5000() in q5.js>>
function filterSalaryGreaterThan5000() {
   var result = Employee.filter(function(emp){
```

return emp.Salary>5000;

```
for (var key in result) {
    q1.innerHTML+=result[key].Name+" ";
    q1.innerHTML+=result[key].Salary+" ";
}
```

Add Object details:

Name: Salary: DoB: Add

- Mahesh Inder 21 15000 19-04-1997
- · Yoyo 19 6000 1998

Q1. Filtering employees with salary greater than 5000

Filter data

Mahesh Inder 15000 Yoyo 6000

• group employee on the basis of their age

```
A. function groupEmployeeAge() in q5.js >>
function groupEmployeeAge(){
   var teenAge=[];
   var adult=[];
   var senior=[];
  Employee.map(function (emp){
       if(emp.Age>12 && emp.Age<18)</pre>
           teenAge.push(emp);
         else if(emp.Age>=18 && emp.Age<=60)</pre>
           adult.push(emp);
         else if(emp.Age>60 )
           senior.push(emp);
```

```
});
//displaying output
 if(teenAge){
     q2.innerHTML+="<br>Teen Age Gourp: ";
 for (let key in teenAge) {
     q2.innerHTML+=teenAge[key].Name+" ";
    q2.innerHTML+=teenAge[key].Age+" ";
     }
 }
 if(adult){
     q2.innerHTML+="<br>Adult Age Gourp: ";
for (let key in adult) {
     q2.innerHTML+=adult[key].Name+" ";
     q2.innerHTML+=adult[key].Age+" ";
     }
```

```
}
if(senior) {
    q2.innerHTML+="<br>Senior Age Gourp: ";
for (let key in senior){
    q2.innerHTML+=senior[key].Name+" ";
    q2.innerHTML+=senior[key].Age+"<br>";
}
```

Add Object details:

Salary: DoB: Add Name: Age:

- Mahesh Inder 21 15000 19-04-1997
- Yoyo 19 6000 1998
- mike 65 45000 1967
- alex 22 999 1996

}

allison 23 500 1995

Q1. Filtering employees with salary greater than 5000

Filter data

Mahesh Inder 15000 Yoyo 6000

Q2. Group employee on the basis of their age

Group data

Teen Age Gourp:

Adult Age Gourp: Mahesh Inder 21 Yoyo 19

Senior Age Gourp: mike 65

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

A. Function fetchEmployeesSalaryAge() in q5.js >>

Q2. Group employee on the basis of their age

Group data

Teen Age Gourp: Adult Age Gourp: Mahesh Inder 21 Yoyo 19 Senior Age Gourp: mike 65

Q3. Fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

Filter data

alex 4995 allison 2500