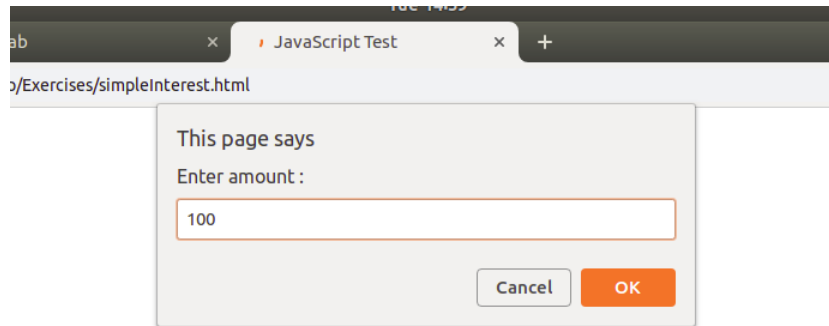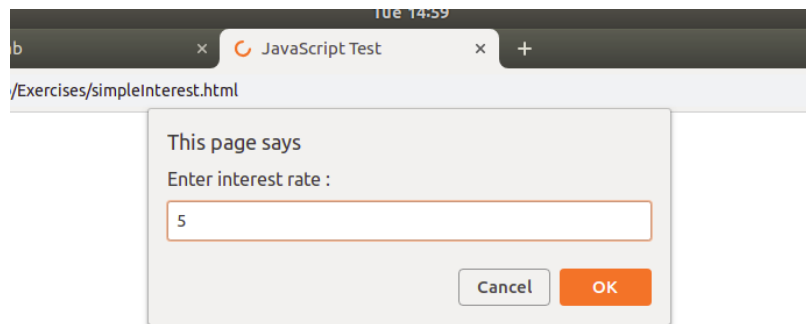Ritesh Singh
empId 3239
Introduction to Javascript

Q1. Prompt for amount, interest rate and no. of years and calculate simple interest.
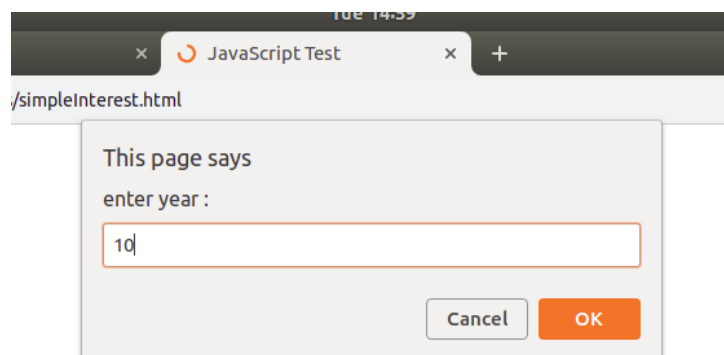**Ans.** [Click here](), to see code

This page says
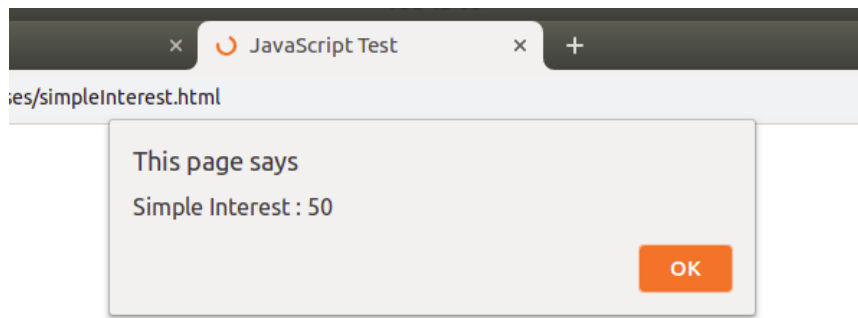
Simple Interest : 50

OK

Q2. is palindrome string?
Ans. Click here, to see code.

This page says

Enter String :

aba

Cancel   OK

This page says

String is palindrome

OK
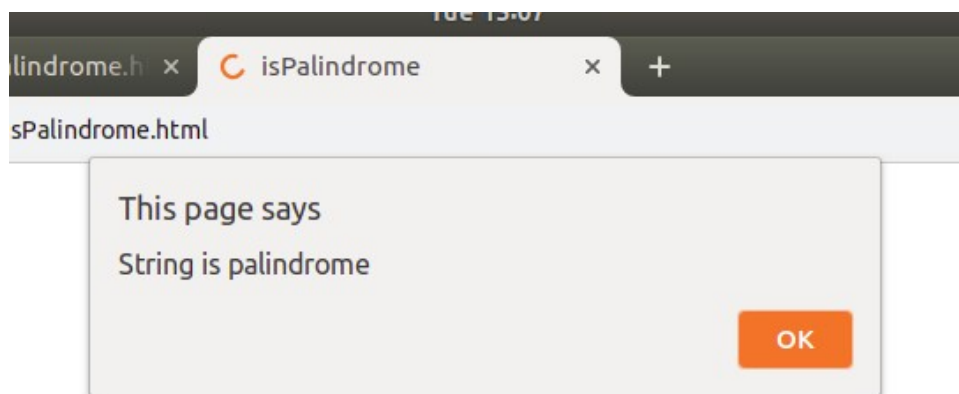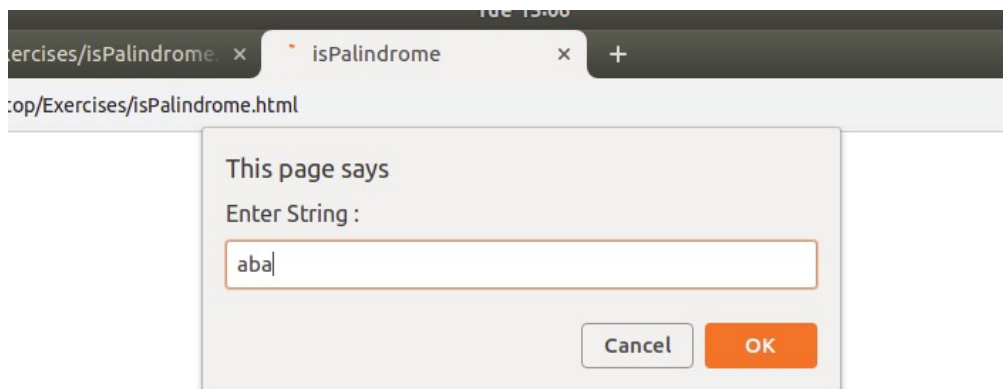
Q3. Area of circle
Ans. Click here, to see code.

es/areaOfCircle.ht ×   ‹   Area   ×   +

rcises/areaOfCircle.html

This page says

Enter radius :

7

Cancel   OK

es/areaOfCircle.ht ×   · Area   ×   +

rcises/areaOfCircle.html

This page says

Area is : 154

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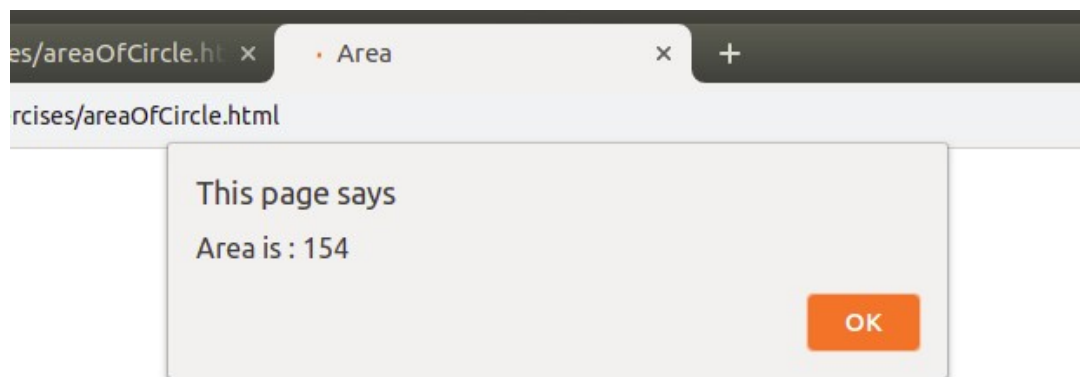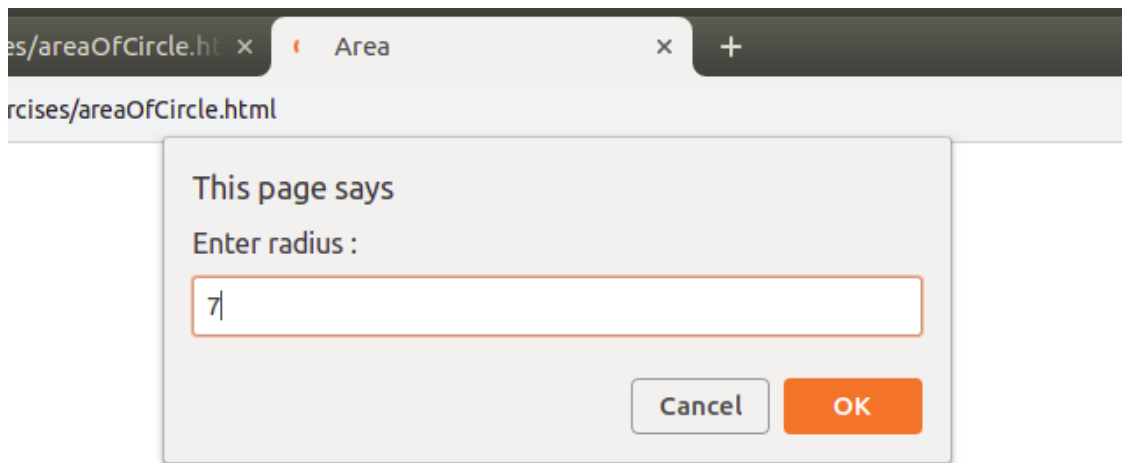
Q4. Copy information of one object to another and log it to console.
Ans.

```
> student
< ▶ {id: "101", name: "Ritesh"}
> function copy9(student2,student)
  {
      for(prop in student){
          console.log(prop);
          student2[prop] = student[prop];
      }
  }
< undefined
> var student3 = {};
< undefined
> copy9(student3,student);
  id
  name
< undefined
> student3
< ▶ {id: "101", name: "Ritesh"}
> console.log("id is : "+student3.id+" Name of Student : "+student3.name);
  id is : 101 Name of Student : Ritesh
< undefined
```

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

1. Name, age, salary ,DOB

```
> var emp = { name:"Ritesh", age:"21", salary:"7000", DOB:"13/12/1997"};
< undefined
> emp
< ▼ {name: "Ritesh", age: "21", salary: "7000", DOB: "13/12/1997"} ⓘ
      DOB: "13/12/1997"
      age: "21"
      name: "Ritesh"
      salary: "7000"
    ▶  proto  : Object
>
```

2. filter all employees with salary greater than 5000

```
> arr
< ▼ (5) [{…}, {…}, {…}, {…}, {…}] ⓘ
    ▶ 0: {name: "Ritesh", age: "21", salary: "7000", DOB: "13/12/1997"}
    ▶ 1: {name: "Pankaj", age: "21", salary: "8000", DOB: "13/10/1997"}
    ▶ 2: {name: "Vishal", age: "20", salary: "4000", DOB: "10/10/1996"}
    ▶ 3: {name: "Shivam", age: "23", salary: "6000", DOB: "10/10/1995"}
    ▶ 4: {name: "Satyam", age: "23", salary: "3000", DOB: "1/10/1995"}
      length: 5
    ▶   proto  : Array(0)
> function salary(){
      var result = arr.filter(function(emp){
          return emp.salary>5000;
      });

      for(var key in result){
          console.log("name : "+result[key].name+", salary "+result[key].salary);
      }
  }
< undefined
> salary()
  name : Ritesh, salary 7000
  name : Pankaj, salary 8000
  name : Shivam, salary 6000
< undefined
```

3. group employee on the basis of their age

```
> groupByAge
<· f groupByAge(){
      arr.map(function(emp){
          if(emp.age<"21")
              teen.push(emp);
          else if(emp.age>"21")
              senior.push(emp);
          else
              adult.push(emp);
  ...
```

```
> groupByAge()
<· undefined
> teen
<· ▼ [{…}] ⓘ
    ▶ 0: {name: "Vishal", age: "20", salary: "4000", DOB: "10/10/1996"}
      length: 1
    ▶   proto  : Array(0)
> adult
<· ▼ (2) [{…}, {…}] ⓘ
    ▶ 0: {name: "Ritesh", age: "21", salary: "7000", DOB: "13/12/1997"}
    ▶ 1: {name: "Pankaj", age: "21", salary: "8000", DOB: "13/10/1997"}
      length: 2
    ▶   proto  : Array(0)
> senior
<· ▼ (2) [{…}, {…}] ⓘ
    ▶ 0: {name: "Shivam", age: "23", salary: "6000", DOB: "10/10/1995"}
    ▶ 1: {name: "Satyam", age: "23", salary: "3000", DOB: "1/10/1995"}
      length: 2
    ▶   proto  : Array(0)
```

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

```
undefined
arr
▼ (6) [{…}, {…}, {…}, {…}, {…}, {…}] ⓘ
    ▶ 0: {name: "Ritesh", age: "21", salary: "7000", DOB: "13/12/1997"}
    ▶ 1: {name: "Pankaj", age: "21", salary: "8000", DOB: "13/10/1997"}
    ▶ 2: {name: "Vishal", age: "20", salary: "4000", DOB: "10/10/1996"}
    ▶ 3: {name: "Shivam", age: "23", salary: "6000", DOB: "10/10/1995"}
    ▶ 4: {name: "Satyam", age: "23", salary: "3000", DOB: "1/10/1995"}
    ▶ 5: {name: "Sat", age: "23", salary: 300, DOB: "1/10/1995"}
      length: 6
    ▶  proto  : Array(0)
function fetchEmployee(){
    for(var key in arr){
        if(arr[key].salary<1000 && arr[key].age>20){
            arr[key].salary *=5;

            console.log("name : "+arr[key].name+" salary : "+arr[key].salary);
        }
    }
}
undefined
fetchEmployee()
name : Sat salary : 1500
undefined
```