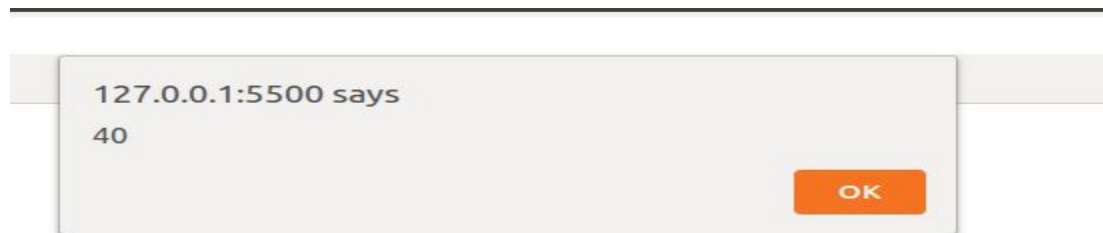
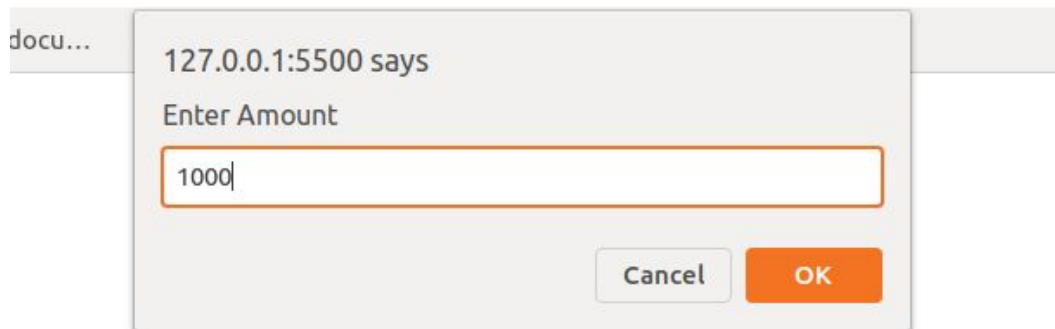


Q.1 Prompt for amount, interest rate and no. of years and calculate simple interest.

Code-

```
function simpleInterest(a,r,t){  
    let si = (a*r*t)/100;  
    return si;  
}  
  
let s = prompt("Enter Amount");  
let r = prompt("Enter Interest Rate");  
let t = prompt("Enter No.Of Years");  
let result =simpleInterest(s,r,t);  
alert(result)
```

Output -



Q .2 is palindrome string.

Code -

```
function palindrome(a){
    let len = a.length
    for(let i=0;i<len/2;i++){
        if( a[i]!==a[len-1-i]){
            return false;
        }
        return true;
    }
}
console.log(palindrome('eye'));
Output - true
```

Q.3 Area of circle

Code -

```
const area =(radius)=>{
    return 3.14*radius*radius;
}

let r = prompt("Enter radius of circle");
let a=area(r)
alert("Area Of Circle: "+a);
```

Live Demo -

127.0.0.1:5500 says

Enter radius of circle

Cancel OK

127.0.0.1:5500 says

Area Of Circle: 314

OK

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

```
let old = {
  "first" : 'taman',
  "last": 'gupta',
  "mobile" : 702521623
}
console.log(old);
let copiedObject = {...old}
console.log(copiedObject)
```

Live Demo-



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

- Name, age, salary ,DOB

Code -

```
const emp = [  
  {  
    'name': 'akash',  
    'age': 22,  
    'salary': 15000,  
    'DOB': '1/1/1998'  
  },  
  {  
    'name': 'taman',  
    'age': 21,  
    'salary': 5000,  
    'DOB': '4/10/1998'  
  },  
  {  
    'name': 'ravi',  
    'age': 23,  
    'salary': 800,  
    'DOB': '4/3/1996'  
  },  
  {  
    'name': 'amit',  
    'age': 21,  

```

```

    'salary':80,
    'DOB': '9/5/1999'
  },
  {
    'name':'amitesh',
    'age':23,
    'salary':6000,
    'DOB': '3/1/1997'
  }
]
for (const iterator of emp) {
  console.log(iterator)
}

```

Output-

```

▶ {name: "akash", age: 22, salary: 15000, DOB: "1/1/1998"}
▶ {name: "taman", age: 21, salary: 5000, DOB: "4/10/1998"}
▶ {name: "ravi", age: 23, salary: 800, DOB: "4/3/1996"}
▶ {name: "amit", age: 21, salary: 80, DOB: "9/5/1999"}
▶ {name: "amitesh", age: 23, salary: 6000, DOB: "3/1/1997"}
>

```

- filter all employees with salary greater than 5000

```

const re=emp.filter(emps=>emps.salary>5000);
console.log(re);

```

Output -

```
▼ (2) [{...}, {...}] ⓘ  
  ▶ 0: {name: "akash", age: 22, salary: 15000, DOB: "1/1/1998"}  
  ▶ 1: {name: "amitesh", age: 23, salary: 6000, DOB: "3/1/1997"}  
    length: 2  
  ▶ __proto__: Array(0)
```

- group employee on the basis of their age

```
let group = emp.reduce(function(a,b) {  
  a[b.age] = a[b.age] || [];  
  a[b.age].push(b);  
  return a;  
}, Object.create(null));  
console.log(group);
```

Output -

```
▼ {21: Array(2), 22: Array(1), 23: Array(2)}  
  ▼ 21: Array(2)  
    ▶ 0: {name: "taman", age: 21, salary: 5000, DOB: "4/10/1998"}  
    ▶ 1: {name: "amit", age: 21, salary: 80, DOB: "9/5/1999"}  
      length: 2  
    ▶ __proto__: Array(0)  
  ▼ 22: Array(1)  
    ▶ 0: {name: "akash", age: 22, salary: 15000, DOB: "1/1/1998"}  
      length: 1  
    ▶ __proto__: Array(0)  
  ▼ 23: Array(2)  
    ▶ 0: {name: "ravi", age: 23, salary: 800, DOB: "4/3/1996"}  
    ▶ 1: {name: "amitesh", age: 23, salary: 6000, DOB: "3/1/1997"}  
      length: 2  
    ▶ __proto__: Array(0)
```

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

Code -

```
let re = emp.filter(emps=> emps.salary<1000&&emps.age>20);  
  
console.log(re);  
  
for (const i of re) {  
  
    i.salary= i.salary*5;  
  
}
```

```
▼ (2) [{...}, {...}] ⓘ  
  ▶ 0: {name: "ravi", age: 23, salary: 4000, DOB: "4/3/1996"}  
  ▶ 1: {name: "amit", age: 21, salary: 400, DOB: "9/5/1999"}  
    length: 2  
  ▶ __proto__: Array(0)
```

Output - |