

# JavaScript Evaluation Test

Name: \_\_\_\_\_

## 1. Just Write down The Output of the following Programs.

```
let value = 20;
function valueChanger() {
    value = 30;
}
valueChanger();
console.log(value);
```

**Answer:** \_\_\_\_\_

```
let value = 20;
function valueChanger(value) {
    value = 30;
}
valueChanger(value);
console.log(value);
```

**Answer:** \_\_\_\_\_

```
printSum(10, 5);
var printSum = function (a, b) {
    return a + b;
}
```

**Answer:** \_\_\_\_\_

```
let value = 20;
function printValue() {
  console.log(value);
  var value = 40;
}
console.log(value);
```

**Answer:** \_\_\_\_\_

```
function printValue() {
  if (true) {
    let x = 20;
    var y = 30;
  }
  console.log(x);
  console.log(y);
}
printValue();
```

**Answer:**

\_\_\_\_\_

\_\_\_\_\_

`console.log(11 + '55');` **Answer:** \_\_\_\_\_

`console.log(11 + +'55');` **Answer:** \_\_\_\_\_

`console.log(+'55');` **Answer:** \_\_\_\_\_

`console.log(11 + -'55');` **Answer:** \_\_\_\_\_

`console.log('55' - 11);` **Answer:** \_\_\_\_\_

`console.log(false || 2);` **Answer:** \_\_\_\_\_

```
console.log(2 && true && {} || 4);
```

**Answer:** \_\_\_\_\_

```
console.log(3 && true && false && 'Sajjad');
```

**Answer:** \_\_\_\_\_

```
console.log(false || true && 2 || 'Ali');
```

**Answer:** \_\_\_\_\_

```
let x = [1, 2];  
let y = [0, ...x, ...x];  
console.log(y);
```

**Answer:** \_\_\_\_\_

```
let object = {  
  a: 2,  
  b: 3,  
}  
let obj = {  
  ...object,  
  b: 4,  
}  
console.log(obj);
```

**Answer:** \_\_\_\_\_

```
const user = {  
  fName: 'Sajjad',  
};  
let age = 21;  
  
function modifyObject(obj, age) {  
  obj.fName = 'Ali';  
  age = 30;  
}  
modifyObject(user, age);
```

console.log(user.fName); **Answer:** \_\_\_\_\_

console.log(age); **Answer:** \_\_\_\_\_

2. **What is the difference between shallow and deep copy? Also write down 2 ways of doing shallow and 1 way of doing deep copy.**

3. **Write down the name of functions that perform specific operations on array.**

Add item at the end of array	
Add item at the start of array	
Remove item from the start of array	
Remove item from the start of array	
Check that item exist in an array or not	

**4. Is Object equal to another Object? E.g {} === {}**

Note: Answer should be true or false and also tell the reason.

**5. What is the difference between arrow and normal function?  
Also write down the syntax.**

Arrow Function:

Normal Function:

**6. Write a function name (sum) that takes (n) number of arguments and return the sum of it.**

**Example:**

sum(1,2,3) => return 6

sum(1,1,1,1,1,1,1) => return 7

sum(1,2,3,4,5,6,7,8,9,10) => return 55

## 7. Call the given function by using call,bind,apply methods.

```
let user = {  
  firstName: 'Sajjad',  
  lastName: 'Ali',  
}
```

```
Function printUserName() {  
  console.log(this.firstName+ ' ' + this.lastName);  
}
```

**8. Write down the definition of this function**

```
sum(2 + 4, ( c, d ) => {  
    d(c + 1);  
})
```



**9. Write down the definition every and filter function.**