

REACT ASSIGNMENT I:

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Q1. Write a javascript function called reverseString takes and returns the string reversed?

```
function reverseString(inputString) {  
    return inputString.split('').reverse().join('');  
}
```

```
const originalString = "Hello, World!";  
console.log(reverseString(originalString));
```

Output: "!dlroW ,olleH"

In the above solution takes a reverse string function and convert to array of characters using split. Then reverse the array using reverse and then join the characters back to string using join.

Q2. Write a javascript function called printTriangle and uses a loop to print the pattern?

```
function printTriangle(height) {  
    for (let i = 1; i <= height; i++) {  
        let row = "";  
        for (let j = 1; j <= i; j++) {  
            row += '* ';  
        }  
        console.log(row);  
    }  
}
```

Example: printTriangle(5)

In the above example takes height and uses a two loops and iterate each row then after each looping prints the constructed row by calling the printTriangle.

Output:

```
*  
  
* *  
  
* * *  
  
* * * *  
  
* * * * *
```

Q3. Write a javascript modules that contains a function to calculate the area of rectangle ?

Module: rectangle.js

```
export function calculateRectangleArea(length, width) {  
    return length * width;}  
  
import { calculateRectangleArea } from './rectangle.js';  
  
const length = 10;  
const width = 5;  
  
const area = calculateRectangleArea(length, width);  
console.log(`The area of the rectangle is: ${area}`);
```

output:

The area of the rectangle is: 50

In the above code ,'rectangle.js' defines a module exporting the function to calculate in main.js the area of rectangle import the calculateRectangleArea to calculate the area of rectangle with length 10 and width 5 then display the result.

Q4. Write a javascript function that checks if a given email address is specific domain?

```
function isEmailFromDomain(email, domain) {  
    const extractedDomain = email.split('@')[1];  
    " Check if the extracted domain matches the specified domain"  
    return extractedDomain === domain;}  
const email1 = "user@example.com";  
const email2 = "anotheruser@gmail.com";  
console.log(isEmailFromDomain(email2, "gmail.com"));
```

Output: true

```
console.log(isEmailFromDomain(email2, "yahoo.com"));
```

Output: false

In the above code, isEmailFromDomain function takes an email address and extracts the domain using split and checks if it matches the specific domain and display the result.