**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:

\*

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\* \* \*

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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 caluculate 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 emailaddress and extracts the domain using split and checks if it matches the specific domain and display the result.