

Java Script Task-2

1) Implement a JavaScript function that checks if a given string is a palindrome (reads the same backward as forward).

CODE:

```
function isPalindrome(str) {  
    let reversed = "";  
    for (let i = str.length - 1; i >= 0; i--) {  
        reversed += str[i];  
    }  
    return str === reversed;  
}  
  
console.log(isPalindrome("madam"));  
console.log(isPalindrome("hello"));  
console.log(isPalindrome("radar"));
```

OUTPUT: true

False

True

2) Write a function in JavaScript that generates an array of Fibonacci

CODE:

```
function generateFibonacciArray(numTerms) {  
    let fibonacciArray = [];  
  
    if (numTerms === 1) {  
        fibonacciArray.push(0);  
    }  
}
```

```

    } else if (numTerms >= 2) {
        fibonacciArray.push(0, 1);

        for (let i = 2; i < numTerms; i++) {
            let nextFibonacciNum = fibonacciArray[i - 1] +
fibonacciArray[i - 2];
            fibonacciArray.push(nextFibonacciNum);
        }
    }

    return fibonacciArray;
}

// Generate Fibonacci array with 10 terms
console.log(generateFibonacciArray(10));

```

OUTPUT:

```

[
  0, 1, 1, 2, 3,
  5, 8, 13, 21, 34
]

```

3) Create a simple JavaScript program that uses setTimeout to display a message after a delay of 3 seconds.

CODE:

```

console.log("Starting...");
setTimeout(function() {
    console.log("Message displayed after 3 seconds.");
}, 3000);
console.log("This will be displayed immediately.");

```

OUTPUT:

Starting...

This will be displayed immediately.

Message displayed after 3 seconds.