DEPARTMENT OF SOFTWARE ENGINEERING

The University of Lahore
Faculty of Information Technology

Assignment Cover Letter
(Individual Work)

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SAP ID	70113098	Title of Assignment	Is
Course Code		Due Date	
Course Name	Web Engineering	Submission Date	17/03/2023
Section	T		

Signature	

Here are some basic JavaScript assignments that you can work on:

1. **Create a function that takes two numbers as parameters and returns the sum of those numbers.**

```
function addNumbers(num1, num2) {
 return num1 + num2;
}
```

2. Create a program that prompts the user to enter their name and then displays a personalized greeting.

```
let name = prompt("What is your name?");
alert(`Hello, ${name}!`);
```

3. Write a function that takes an array of numbers and returns the average of those numbers.

```
function findAverage(numbers) {
  let sum = 0;
  for (let i = 0; i < numbers.length; i++) {
    sum += numbers[i];
  }
  return sum / numbers.length;
}
```

4. Create a program that prompts the user to enter a number and then displays whether that number is even or odd.

```
let num = prompt("Enter a number:");
if (num % 2 == 0) {
  alert("Even");
} else {
  alert("Odd");
}
```

5. Write a function that takes a string as a parameter and returns the reverse of that string.

```
function reverseString(str) {
```

```
  return str.split("").reverse().join("");
}
```

6. Create a program that generates a random number between 1 and 10 and prompts the user to guess that number. The program should then tell the user whether their guess was too high, too low, or correct.

```
let randomNumber = Math.floor(Math.random() * 10) + 1;
let guess = prompt("Guess a number between 1 and 10:");
if (guess == randomNumber) {
  alert("Correct!");
} else if (guess > randomNumber) {
  alert("Too high");
} else {
  alert("Too low");
}
```

7. Write a function that takes a number as a parameter and returns true if that number is prime, and false otherwise.

```
function isPrime(num) {
 if (num <= 1) {
   return false;
 }
 for (let i = 2; i <= Math.sqrt(num); i++) {
  if (num % i == 0) {
    return false;
  }
 }
 return true;
}
```

8. Create a program that prompts the user to enter a sentence and then displays the number of words in that sentence.

```
let sentence = prompt("Enter a sentence:");
let words = sentence.split(" ");
alert(`The number of words is ${words.length}`);
```

9. Write a function that takes an array of strings and returns the longest string in that array.

```
function findLongestString(strings) {
  let longestString = strings[0];
  for (let i = 1; i < strings.length; i++) {
    if (strings[i].length > longestString.length) {
      longestString = strings[i];
    }
  }
  return longestString;
}
```

10. Create a program that prompts the user to enter their age and then displays a message telling them whether they are old enough to vote. In Pakistan, the voting age is 18.

```
let age = prompt("What is your age?");
if (age >= 18) {
  alert("You are old enough to vote!");
} else {
  alert("You are not old enough to vote.");
}
```