

SEC PRACTICAL 11 TO 20

11. Write a javascript to print the sum of n numbers

12. Write a javascript to check whether a character is vowel or consonant

```
<!DOCTYPE html>
<html>

<head>
  <title>Vowel or Consonant Checker</title>
</head>

<body>
  <h1>Vowel or Consonant Checker</h1>

  <script>
    const character = prompt('Enter a character:');

    const vowels = 'aeiouAEIOU';
    const isVowel = vowels.includes(character);

    if (isVowel) {
      alert(`${character} is a vowel.`);
    } else {
      alert(`${character} is a consonant.`);
    }
  </script>
</body>

</html>
```

13. Write a javascript to check whether a number is prime number or not

```
<!DOCTYPE html>
<html>
<head>
  <title>Prime Number Checker</title>
</head>
<body>
  <h1>Check Prime Number</h1>
  <label for="Inputprime">Enter a number:</label>
  <input type="primenumber" id="Inputprime" placeholder="Enter number">
  <button onclick="checkPrimeNumber()">Check</button>
  <p id="answer"></p>

  <script>
    function checkPrimeNumber() {
```

```

    var number = document.getElementById("Inputprime").value;

    if (isNaN(number) || number <= 1) {
        document.getElementById("answer").innerHTML = "Please enter a valid number
greater than 1.";
        return;
    }

    for (let i = 2; i <= Math.sqrt(number); i++) {
        if (number % i === 0) {
            document.getElementById("answer").innerHTML = `${number} is not a prime
number.`;
            return;
        }
    }

    document.getElementById("answer").innerHTML = `${number} is a prime number!`;
}
</script>
</body>
</html>

```

14. Write a javascript to print the Fibonacci series

```

<!DOCTYPE html>
<html>
<head>
    <title>Fibonacci Series</title>
</head>
<body>
    <h1>Fibonacci Series</h1>
    <div>No. Of Terms:</div>
    <input type="number" id="num" min="1" value="10">
    <button onclick="generateFibonacci()">Generate</button>
    <p id="answer"></p>

    <script>
        function generateFibonacci() {
            var num = parseInt(document.getElementById("num").value);
            var answer = document.getElementById("answer");
            let num1 = 0, num2 = 1, nextTerm;
            let series = "Fibonacci Series:<br>";

            for (let i = 1; i <= num; i++) {
                series += num1 + "<br>";
                nextTerm = num1 + num2;
                num1 = num2;
                num2 = nextTerm;
            }
            answer.innerHTML = series;
        }
    </script>

```

```

    }

    answer.innerHTML = series;
  }
</script>
</body>
</html>

```

15. Write a javascript to print prime numbers between 1 and 100..

```

<!DOCTYPE html>
<html>
<head>
  <title>Prime Numbers from 1 to 100</title>
</head>
<body>
  <h1>Prime Numbers from 1 to 100</h1>
  <div id="numbers"></div>
  <script>
    let numbersDiv = document.getElementById("numbers");

    function isPrime(num) {
      for (let i = 2; i < num; i++) {
        if (num % i === 0) {
          return false;
        }
      }
      return num > 1;
    }

    for (let i = 2; i <= 100; i++) {
      if (isPrime(i)) {
        numbersDiv.innerHTML += i + "<br>";
      }
    }
  </script>
</body>
</html>

```

16. Write a javascript to print even numbers between 1 and 100

```

<!DOCTYPE html>
<html>
<head>
  <title>Even numbers from 1 to 100</title>
</head>
<body>
  <h1>Even numbers from 1 to 100</h1>
  <div id="numbers"></div>

```

```

<script>
  let numbersDiv = document.getElementById("numbers");
  for (let i = 2; i <= 100; i+=2) {
    numbersDiv.innerHTML += i + "<br>";
  }
</script>
</body>
</html>

```

17. Write a javascript to print odd numbers between 1 and 100

```

<!DOCTYPE html>
<html>
<head>
  <title>Odd numbers from 1 to 100</title>
</head>
<body>
  <h1>Odd numbers from 1 to 100</h1>
  <div id="numbers"></div>
  <script>
    let numbersDiv = document.getElementById("numbers");
    for (let i = 1; i <= 100; i+=2) {
      numbersDiv.innerHTML += i + "<br>";
    }
  </script>
</body>
</html>

```

18. Write a javascript to print leap years between 2021 and 2030

```

<!DOCTYPE html>
<html>
<head>
  <title>leap years between 2021 and 2030</title>
</head>
<body>
  <h1>leap years between 2021 and 2030</h1>
  <div id="leapyears"></div>
  <script>
    let leapyearsDiv = document.getElementById("leapyears");
    for (var year = 2021; year <= 2030; year++) {
      if ((year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0)) {
        leapyearsDiv.innerHTML += year + "<br>";
      }
    }
  </script>
</body>
</html>

```

19. Write a javascript to validate a mobile number

```
<!DOCTYPE html>
<html>
<head>
  <title>Mobile Number Validation</title>
</head>
<body>
  <h1>Mobile Number Validation</h1>
  <label for="number">Enter your mobile number:</label>
  <input type="text" id="number" placeholder="eg:1234567890">
  <button onclick="validateMobileNumber()">Validate</button>
  <p id="answer"></p>

  <script>
    function validateMobileNumber() {
      var number = document.getElementById("number").value;
      var num = /^[0-9]{10}$/;

      if (num.test(number)) {
        document.getElementById("answer").innerHTML = "Valid mobile number!";
      } else {
        document.getElementById("answer").innerHTML = "Invalid mobile number";
      }
    }
  </script>
</body>
</html>
```

20. Write a javascript to validate an email id.

```
<!DOCTYPE html>
<html>
<head>
  <title>Email Validation</title>
</head>
<body>
  <h1>Email Validation</h1>
  <label for="email">Enter your email id:</label>
  <input type="text" id="email" placeholder="eg.abx@gmail.com">
  <button onclick="validateEmail()">Validate</button>
  <p id="answer"></p>

  <script>
    function validateEmail() {
      var email = document.getElementById("email").value;
      var isValid = /^[^\s@]+@[^\s@]+\.[^\s@]+$/ .test(email);
    }
  </script>
</body>
</html>
```

```
        document.getElementById("answer").innerHTML = isValid ? "Valid email address!" :  
"Invalid email address,Enter a valid email.";  
    }  
    </script>  
</body>  
</html>
```