

Assignment 1.

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Programming and Scripting
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```
// Question 1
<!DOCTYPE html>
<body>
    <script>
        var arr = {};
        var sum = 0,
            i;
        //will ask user to type in number 50 times//
        for (i = 0; i < 50; i++) {
            arr[i] = Number(prompt("Enter number " + (Number(i))));
        for (i = 0; i < 50; i++) {
            if (arr[i] >= 40) {
                sum += arr[i];
            } else if (arr[i] < 40); {</pre>
                continue;
            }
        document.write('Sum of numbers over 40 is ' + sum);
    </script>
</body>
```



```
//Question 2
<!DOCTYPE html>
<body>
    <script>
        function printEvenNums() {
            var sum = 0;
            var arr = {};
            for (i = 0; i < 20; i++) {
                arr[i] = Number(prompt("Enter number " + (Number(i))));
            var evenNums = "<br>Even Numbers: <br>";
            for (i = 0; i < 20; i++) {
                if (arr[i] % 2 == 0) {
                    evenNums += arr[i] + "<br>";
                    sum = sum + arr[i];
            //Print even numbers
            document.write(evenNums, "Sum of even numbers = " + sum);
        printEvenNums();
    </script>
</body>
```



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//Question 3
<!DOCTYPE html>
<body>
    <script>
        function oddCount() {
            var arr = {};
            var count = 0;
            //will ask for user input 100 times, which is fairly enough//
            for (i = 0; i < 100; i++) {
                arr[i] = Number(prompt("Enter number " + (Number(i))));
            var oddNums = "<br>>Odd Numbers: <br>";
            for (i = 0; i < 100; i++) {
                if (arr[i] % 2 == 1) {
                    oddNums += arr[i] + "<br>";
                    count = count + arr[i];
            //print the values
            document.write(oddNums, "Odd number count = " +
                count);
        oddCount();
    </script>
</body>
</html>
```



```
//Question 4
<!DOCTYPE html>
<body>
    <script>
        const number = parseInt(prompt('Generate how many Fibonacci
terms? '));
        let m1 = 0,
            m2 = 1,
            nextTerm;
        document.write('Fibonacci numbers:' + "<br>");
        for (let i = 1; i \leftarrow number; i++) {
            document.write(m1 + "<br>");
            nextTerm = m1 + m2;
            m1 = m2;
            m2 = nextTerm;
    </script>
</body>
</html>
```



```
//Question 5
<!DOCTYPE html>
<html>
<body>
    <button onclick="printPrimeNums()">Generate Prime Numbers/button>
    <script>
        function printPrimeNums() {
            var PrimeNums;
            //prime numbers will start from 100 to (including)9999//
            for (var i = 100; i <= 9999; i++) {
                PrimeNums = 1;
                for (var m = 2; m <= i / 2; m++) {
                    if (i % m == 0) {
                        PrimeNums = 0;
                        break;
                if (PrimeNums == 1) {
                    document.write(i + "<br>");
    </script>
</body>
</html>
```