

Fibonacci series-

Program-

```
<html>
```

```
<head>
```

```
<style>
```

```
body {
```

```
    font-family: Arial, sans-serif;
```

```
    background-color: #f4f4f9;
```

```
    margin: 0;
```

```
    padding: 0;
```

```
}
```

```
.container {
```

```
    width: 50%;
```

```
    margin: auto;
```

```
    background: #ffffff;
```

```
    padding: 20px;
```

```
    margin-top: 100px;
```

```
    border-radius: 10px;
```

```
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
```

```
}
```

```
h1 {
```

```
    text-align: center;
```

```
    color: #4CAF50;
```

```
}
```

```
form {
```

```
    display: flex;
```

```
    flex-direction: column;
```

```
    align-items: center;
```

```
    gap: 15px;
}
```

```
input[type="text"] {
    padding: 10px;
    font-size: 16px;
    border: 1px solid #ddd;
    border-radius: 5px;
    width: 80%;
}
```

```
input[type="button"] {
    background-color: #4CAF50;
    color: white;
    border: none;
    padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
    border-radius: 5px;
    transition: background-color 0.3s;
}
```

```
input[type="button"]:hover {
    background-color: #45a049;
}
```

```
#demo {
    margin-top: 20px;
    font-size: 18px;
    color: #333;
    text-align: center;
```

```
    }
</style>
<script>
    function fibonacii() {
        var num1 = parseInt(document.getElementById("number1").value);
        if (isNaN(num1)) {
            alert("Enter a number only");
            document.getElementById("number1").value = "";
        } else {
            var x = 0;
            var y = 1;
            var f = 0;
            var i = 0;

            var result = x + " " + y + " ";
            while (i <= num1 - 2) {
                f = x + y;
                result += f + " ";
                x = y;
                y = f;
                i++;
            }
            document.getElementById("demo").innerHTML = result;
        }
    }
</script>
</head>
<body>
    <div class="container">
        <h1>Fibonacci Sequence</h1>
        <form name="myform">
```

```
<label for="number1">Enter the number:</label>

<input type="text" id="number1" placeholder="Enter a number" />

<input type="button" value="Generate Fibonacci" onclick="fibonacci()" />

<div id="demo"></div>

</form>

</div>

</body>

</html>
```

Output-

Fibonacci Sequence

Enter the number:

23

Generate Fibonacci

0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946 17711 28657