```
1 /*********** 13 STANDARD LOOPS ******/
 2
 3 /**
 4
   * L00PS:
 5
   * --> Loops can execute a block of code a number of times.
   * --> Loops are handy, if you want to run the same code over and over
   again, each time with a different value.
 7
      --> Often this is the case when working with arrays
8
   * --> THREE TYPES:
9
           --> 1. While Loop
           --> 2. Do-While Loop
10
           --> 3. For Loop
11
12
   */
13
14
15 /**
16 * For Loop
17 */
18
19 | let table = 5;
20 for (let i = 1; i \le 10; i++) {
21
       console.log(`${table} * ${i} = ${table * i}`);
22 }
23
24 /**
25
   * While Loop
26 */
27 table = 11;
28 let i = 1;
29
30 while (i <= 10) {
31
       console.log(`${table} * ${i} = ${table * i}`);
32
       i++;
33 }
34
35 /**
36 * Do-While Loop
37 * @GOTCHA
38 *
      --> This Loop Runs Atleast Once In Case of Failure of Condition
39 */
40 i = 50;
41
42 do {
       console.log('Number: ' + i);
43
       i++;
45 \} while (i < 10);
46
47 /**
48
   * Break & Continue
49 */
50
51 for(let i = 1; i < 11; i++) {
52
       if (i === 3) {
53
           console.log(`${i} is my favourite number.`);
54
           continue;
55
       }
56
57
       console.log('Number: ' + i);
58 }
59
```

```
60 for(let i = 1; i < 11; i++) {
61
       if (i === 3) {
           console.log(`Stopped At ${i}.`);
62
63
           break:
64
       }
65
66
       console.log('Number: ' + i);
67 }
68
69 /**
70 * Looping Through Arrays
71 */
72 const names = ['Abhishek', 'Dylan', 'Bittu', 'John', 'Jonas'];
73
74 for(let i = 0; i < names.length; i++) {
       console.log(`${i}: ${names[i]}`);
75
76 }
77
78 /**
79 * Looping Through Arrays
80 * --> Using 'forEach()' Method
81 */
82 names.forEach(function(name) {
83
       console.log(name);
84 });
85
86 /**
87 * 'map()' Function
88 *
         --> return new Array of modified data
89 */
90 const namesHtml = names.map(function(name) {
91 return `${name}`;
92 });
93 console.log(namesHtml);
94
95 /**
96 * For-In Loop
97 * --> Used For Objects
98 */
99 const user = {
100
       name: 'Abhishek',
101
       age: 21,
       hobby: ['Programming', 'Maths']
102
103 };
104
105 for(let x in user) {
106
       console.log(`${x}: ${user[x]}`);
107 }
```