

```
1 // # Chapter Four
2 /*****
3 # Loops are Statements Which Execute Some Block of Code
4 Repeatedly until The Condition Becomes False
5
6 for (initializer-var, condition, increment) {
7
8 }
9
10 As a Beginner - (Loops & Conditions are Two Main Fundamental Concepts of Core
11 Programming.)
12 *****/
13
14 // # Print My Name in 10 Times
15 for (var i = 0; i < 10; i++) {
16     console.log(i + 1 + ". " + " sAiFuL bAppy");
17 }
18 /***** Output *****/
19 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/4. Chapter_Four
20 $ node "2-forLoop.js"
21 1. sAiFuL bAppy
22 2. sAiFuL bAppy
23 3. sAiFuL bAppy
24 4. sAiFuL bAppy
25 5. sAiFuL bAppy
26 6. sAiFuL bAppy
27 7. sAiFuL bAppy
28 8. sAiFuL bAppy
29 9. sAiFuL bAppy
30 10. sAiFuL bAppy
31
32 // # Print Sum of 1 To 10
33 var sum = 0;
34 for (var i = 1; i <= 10; i++) {
35     console.log(sum + " + " + i + " = " + (sum + i));
36     sum = sum + i;
37 }
38 console.log("result = " + sum);
39
40 /***** Output *****/
41 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/4. Chapter_Four
42 $ node "2-forLoop.js"
43 0 + 1 = 1
44 1 + 2 = 3
45 3 + 3 = 6
46 6 + 4 = 10
47 10 + 5 = 15
48 15 + 6 = 21
49 21 + 7 = 28
50 28 + 8 = 36
51 36 + 9 = 45
52 45 + 10 = 55
53 result = 55
54
55
56
57
```

```
58
59 // # Print All Odd Number in 1 To 10
60 for (var i = 1; i <= 10; i++) {
61     if (i % 2 == 1) {
62         console.log(i);
63     }
64 }
65
66 /***** Output *****/
67 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/4. Chapter_Four
68 $ node "2-forLoop.js"
69 1
70 3
71 5
72 7
73 9
74
75 // # Print Sum of Even Number in 1 To 10
76 var sum = 0;
77 for (var i = 1; i <= 10; i++) {
78     if (i % 2 == 0) {
79         sum = sum + i;
80         console.log(sum + " = " + (sum - i) + " + " + i);
81     }
82 }
83 console.log("result = " + sum);
84
85 /***** Output *****/
86 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/4. Chapter_Four
87 $ node "2-forLoop.js"
88 2 = 0 + 2
89 6 = 2 + 4
90 12 = 6 + 6
91 20 = 12 + 8
92 30 = 20 + 10
93 result = 30
94
95 // # For Loop Run With Array
96 var nums = ["bAppY", "Saiada", "Naim", "Safiya", "Tabia", "Siam"];
97
98 for (var i = 0; i < nums.length; i++) {
99     var element = nums[i];
100     console.log(element);
101 }
102
103 /***** Output *****/
104 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/4. Chapter_Four
105 $ node "2-forLoop.js"
106 bAppY
107 Saiada
108 Naim
109 Safiya
110 Tabia
111 Siam
```