

For Loop In Javascript

1) Print 1 to N numbers with difference 1.

```
let i;  
let n;  
n = Number(prompt("Enter any number : "));  
for (i = 1; i <= n; i++) {  
    console.log(" ", i);  
}
```

Output:

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

2) Print even numbers upto N.

```
let i;  
let n;  
n = Number(prompt("Enter any number : "));  
console.log("Even Numbers : ");  
for (i = 2; i <= n; i = i + 2) {  
    console.log(" ", i);  
}
```

Output:

```
Even Numbers :  
2  
4  
6  
8  
10
```

3) Print odd numbers upto N.

```
let i;  
let n;  
n = Number(prompt("Enter any number : "));  
console.log("Odd Numbers : ");  
for (i = 1; i <= n; i = i + 2) {
```

```
    console.log(" ", i);  
}
```

Output:

Odd Numbers :

1
3
5
7
9

4) Print sum between x and y number

```
let x;  
let y;  
let i;  
let sum = 0;  
x = Number(prompt("Enter first number : "));  
y = Number(prompt("Enter last number : "));  
for (i = x; i <= y; i++) {  
    sum = sum + i;  
}  
console.log(`Sum of ${x} to ${y} numbers =`, sum);
```

Output:

Sum of 1 to 10 numbers = 55

5) Sum of even numbers.

```
let i;  
let n;  
let sum = 0;  
n = Number(prompt("Enter any number : "));  
for (i = 2; i <= n; i = i + 2) {  
    sum = sum + i;  
}  
console.log(`Sum of even numbers upto ${n} is`, sum);
```

Output:

Sum of even numbers upto 20 is 110

6) Factorial of given number.

```
let i;  
let n;  
let fact = 1;  
n = Number(prompt("Enter any number : "));  
for (i = n; i > 1; i--) {  
    fact = fact * i;  
}  
console.log(`Factorial of ${n} = `, fact);
```

Output:

Factorial of 5 = 120

7) Power of given number.

```
let n;  
let x;  
let fl = 1;  
n = Number(prompt("Enter the power : "));  
x = Number(prompt("Enter the number : "));  
for (let i = 1; i <= n; i++) {  
    fl = fl * x;  
}  
console.log(`Power of ${x} = `, fl);
```

Output:

Power of 5 = 625

8) Factors of given number.

```
let n;  
let i;  
let sum = 0;  
n = Number(prompt("Enter any number : "));  
console.log(`Factors of ${n} : `);  
for (i = 1; i <= n/2; i++){  
    if (n % i == 0) {  
        console.log(" ", i);  
    }  
}  
}
```

Output:

Factors of 20 :

1
2
4
5
10

9) Given number is pronic or not.

```
let i;
let n;
let flag = 0;
n = Number(prompt("Enter any number : "));
for (i = 1; i < n; i++) {
    if (n === (i * (i + 1))) {
        flag = 1;
        break;
    }
}
if (flag === 1) {
    console.log(`${n} is pronic number.`);
}
else {
    console.log(`${n} is not pronic number.`);
}
```

Output:

132 is pronic number.

10) Given number is prime or not.

```
let i;
let n;
let flag = 0;
n = Number(prompt("Enter any number : "));
for (i = 2; i < n/2; i++) {
    if (n % i === 0) {
        flag = 1;
        break;
    }
}
if (flag === 0) {
    console.log(`${n} is prime number.`);
}
else {
    console.log(`${n} is not prime number.`);
}
```

Output:

7 is prime number.