

1. Write a program which illustrates all arithmetic operators

ANS;

```
var a = 12;
var b = 2;
add = a + b
sub = a - b
mult = a * b
div = a / b
mod = a % b
console.log(add)
console.log(sub)
console.log(mult)
console.log(div)
console.log(mod)
output;
PS D:\Assingment> node day1.js
14
14
24
6
0
```

2. Write a program which illustrates all logical operators

```
var a1 = true && true;

var a2 = true && false;

console.log(a1)

console.log(a2)

var b1 = true && true;

var b2 = true && false;

var b3 = false || false;

console.log(b1)

console.log(b2)

PS D:\Assingment> node day1.js
true
false
true
true
```

3 Find the greatest of two numbers.

```
a = 20
b = 30
if (a > b) {
  console.log('a is greater than b')
}
else {
  console.log('b is greater than a')
}
```

PS D:\Assingment> node day1.js

b is greater than a

4.Greatest of three numbers.

```
a = 20
b = 22
c = 33
if(a>b && a>c){
  console.log('a is great')
}
else if(b>c){
  console.log('b is greater')
}
else {
  console.log('c is greater')
}
```

PS D:\Assingment> node day1.js
c is greater

5 Find a given number is odd or even.

```
var number = 5

if(number % 2 == 0) {

    console.log("The number is even.");

}

else {

    console.log("The number is odd.");

}
```

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The number is odd.

6 Swapping of two numbers

```
let a = 12;
```

```
let b = 55;
```

```
let temp;
```

```
temp = a;
```

```
a = b;
```

```
b = temp;
```

```
console.log(a);
```

```
console.log(b );
```

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55

12

7..Convert Fahrenheit_ to celsius

```
F = 90;  
C = (F-32 ) * 5/9  
console.log(C)
```

PS D:\Assingment> node day1.js

32.22222222222222

8 Check given number is positive, negative or zero\

```
a = 6;  
if(a > 0)  
{  
    console.log("The number is Positive")  
}  
else if(a < 0)  
{  
    console.log("The number is Negative")  
}  
else  
{  
    console.log("The Number is Zero")  
}
```

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The number is Positive

9 Check given number is prime or not

```
let number = 2

let isPrime = true;

if (number === 1) {

    console.log("1 is neither prime nor composite number.");

}

else if (number > 1) {

    for (let i = 2; i < number; i++) {

        if (number % i == 0) {

            isPrime = false;

            break;

        }

    }

}

if (isPrime) {

    console.log(`${number} is a prime number`);

} else {

    console.log(`${number} is a not prime number`);

}

2 is a prime number
```

10. Find factorial of a number

```
num =11;

f =1;

for ( i = 1; i<= num; i++){

    f = f*i

}

console.log(f)
```

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11. Write a program which involves adding and removing values to array at beginning and at the end.

```
let dob = ["23","77","55"]

dob.pop();

console.log(dob)

let panno = ["2222","22456","4555"]

panno.unshift("2222446");

console.log(panno)

PS D:\Assingment> node day1.js

[ '23', '77' ]

[ '2222446', '2222', '22456', '4555' ]
```

12 Write a program to print n natural numbers

```
h = 14;

for(var i = 1 ; i <15 ; i++){

    console.log(i)

}
```

PS D:

PS D:\Assingment> node day1.js

1

2

3

4to30

13..Program to print fibonacci series of n numbers

```
let a = 0, b = 1, c, z = 10;

console.log('Fibonacci Series:');

for (let i = 1; i <= z; i++) {

    console.log(a);

    c = a + b;

    a = b;

    b = c;

}
```

\PS D:\Assingment> node day1.js

Fibonacci Series:

0

```
1  
1  
2  
3  
5  
8
```

14 Program to find sum of n numbers

```
var a = 90;  
var s = 0;  
for(var i = 1; i <= a; i++)  
s += i;  
console.log(s);  
var a = 90;  
var s = 0;  
for(var i = 1; i <= a; i++)  
s += i;  
console.log(s);  
outp  
4095
```

15 Write a program to print n odd numbers

```
for(var n = 1; n <= 10; n+=2)  
  
console.log(n)
```

```
1  
3  
5  
7  
9
```