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Arithmetic operators Answers

1) Take two numbers and find their sum, diff, mul, div and modulus

```
let a = parseInt(prompt('Enter first number'));
let b = parseInt(prompt('Enter second number'));
let sum = a+b;
let diff = a-b;
let mul = a*b;
let div = a/b;
let modulus = a%b;
console.log("Sum is"+sum);
console.log("Diff is"+diff);
console.log("Mul is"+mul);
console.log("Div is"+div);
console.log("Modulus is"+modulus);
```

2) Take two numbers and only find their integer part when a is divided by b

Eg: $10/3 \Rightarrow 3$, $10/4 \Rightarrow 2$

```
let a = parseInt(prompt('Enter first number'));
let b = parseInt(prompt('Enter second number'));
let div = Math.trunc(a/b);
console.log("Div is"+div);
```

3) Take two numbers and find the power of the first number over the second.

```
let a = parseInt(prompt('Enter first number'));
let b = parseInt(prompt('Enter second number'));
let power = Math.pow(a,b);
console.log(power);
```

4) Take two numbers and only find their decimal part when a is divided by b.

```
let a = parseInt(prompt('Enter first number'));
let b = parseInt(prompt('Enter second number'));
let ans= (a/b);
answer=ans% 1;
console.log(answer);
```

5) Take marks in 5 subject and find average

```
let m1,m2,m3,m4,m5;
m1 = parseInt(prompt('Enter marks of subject 1'));
m2 = parseInt(prompt('Enter marks of subject 2'));
m3 = parseInt(prompt('Enter marks of subject 3'));
m4 = parseInt(prompt('Enter marks of subject 4'));
m5 = parseInt(prompt('Enter marks of subject 5'));
sum=m1+m2+m3+m4+m5;
```

```
avg=sum/5;  
console.log("avg="+avg);
```

6) Find profit by taking the cost price and sell price of a product.

```
let a = parseInt(prompt('Enter cost price'));  
let b = parseInt(prompt('Enter sell price'));  
let profit= b-a;  
console.log(profit);
```

7) Take any number and find its last digit

```
let a = parseInt(prompt('Enter a number'));  
let last= a% 10;  
console.log(last);
```

8) Take a 2 digit number and find first and last digit

```
let a = parseInt(prompt('Enter a number'));  
let last= a% 10;  
console.log(last);  
let first;  
while(a!=0) {  
    first = a% 10;  
    a = a/10;  
}  
console.log(first);
```

9) Reverse a 2 digit number

```
var tmp=0, x, num, y;  
num = parseInt(prompt('Enter 2 digit number'));  
y = num;  
while(num > 0){  
    x = num% 10;  
    num = parseInt(num/10);  
    tmp = tmp*10+x;  
}  
if(tmp == y){  
    console.log("The number is reverse of original number");  
}  
else{  
    console.log("The number is not reverse of original number");  
}
```

10) Reverse a 3 digit number

```
var tmp=0, x, num, y;
```

```
num = parseInt(prompt('Enter 3 digit number'));
y = num;
while(num > 0){
    x = num%10;
    num = parseInt(num/10);
    tmp = tmp*10+x;
}
if(tmp == y){
    console.log("The number is reverse of original number");
}
else{
    console.log("The number is not reverse of original number");
}
```

11) Enter 2 numbers and exchange their values using third variable

```
let a = parseInt(prompt('Enter first number'));
let b = parseInt(prompt('Enter second number'));
let temp;
temp = a;
a = b;
b = temp;
console.log("exchanged values are: number 1 =" + a + "number 2 =" + b);
```

12) Enter 2 numbers and exchange their values without using third variable

```
let a = parseInt(prompt('Enter first number'));
let b = parseInt(prompt('Enter second number'));
a = a+b;
b = a-b;
a = a-b;
console.log("exchanged values are: number 1 =" + a + "number 2 =" + b);
```