## **OPERAÇÕES MATEMATICAS**

```
/* OPERAÇÕES MATEMATICAS

SOMAR +
SUBTRAIR -
MULTIPLICAR *
DIVIDIR /
ELEVAR AO QUADRADO X ** 2 ou x*x
módulo (resto da divisão de x por y - par/impar) %

*/
```

- Divisão de numeros inteiros não geram o resultado do ponto flutuante, logo temos que aplicar o processo de casting

```
//Dividir numeros inteiros - CAST
res = (float)num1 / (float)num2;
Printf("num1 / num2: %f",(float)res);
```

- O CAST é a conversão do tipo de um numero para trabalhar na execução de uma função no progama, sem mudar seu tipo declarado.

```
[(float)int = float]
[(int)float= int]
```

- Para ao fazer isso voce troca o tipo das variaveis posteriores, logo cuidado. Para resolver, use o cast nas variaveis.

```
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```

## **Exemplos**

- Faça a divisão de num1 / num2, como (FLOAT) e não inteiros.

```
//Dividir numeros inteiros - CAST
res = (float)num1 / (float)num2;
printf("num1 / num2: %f\n",res);
```

- Faça a multiplicação de num1 \* num2 , e me retorne um valor inteiro.
- (res) : declarado nop começo como FLOAT.

```
//Multiplicar
res = num2 * num1;
printf("num2 * num1 = %d\n",(int)res);
```