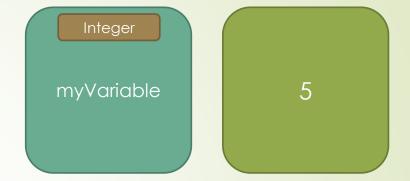
Variables +(sizeof)

- Infa;
- a = 5;
- Int a=5;
- Int a=5,b,c=4;
- Double d = 23.534534;
- → Bool = true;
- Auto au = 4;
- Const Double PI = 3.14;
- a=a+1; ?? (= meaning in programming) (not equal to a-1=a or a=a-1)
- a=b=c



Operators

- Arithmetic: x+y, x-y,, x++, ++x , x--, --x
- Assignment: x=y, x+=2, $x^*=2$, $x^*=3$, x|=3, $x^*=3$, $x^*=3$
- Comparison: x==y, x!=y, x>y, x<=y,...
- Logical: &&, ||, !

Exercise

- Swap two varialbes

```
#include<iostream>
using namespace std;
int main(){
    int a=5, b=6, temp;
    temp = a;
    a = b;
    b = temp;
    //cout<<a<<endl<<b;</pre>
    cout<<a<<"\n"<<b;</pre>
    return 0;
```

choose appropriate word for variables

- Names can contain letters, digits and underscores
- Names must begin with a letter or an underscore (_)
- •Names are case-sensitive (myVar and myvar are different variables)
- •Names cannot contain whitespaces or special characters like !, #, %, etc.
- Reserved words (like C++ keywords, such as int) cannot be used as names

```
int file_size; // Snake Case
int FileSize; // Pascal Case
int fileSize; // Camel Case
```

Exercises

- Calculate the Area of a Rectangle

```
#include<iostream>
using namespace std;
int main(){
    int length=4,width=6,area;
    area = length*width;
    cout<< area;</pre>
    return 0;
```