

# Declaring and Initializing Pointers in C.

General Syntax,

data-type \*pointer\_name;

here data-type refers to the type of the value that the pointer will point to.

[Simple, the type data-type of that variable whose address the pointer will store.]



int \*ptr; ← points to integer value

char \*ptr; ← " " character " "

float \*ptr; ← " " float value.

→ Simply declaring a pointer is not enough,

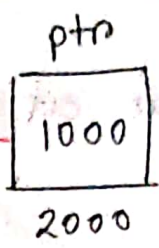
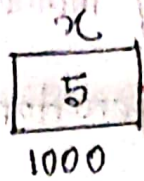
→ it is important to initialize pointer before use

→ One way to initialize a pointer is to assign

int x=5;

int \*ptr;

ptr = &x;



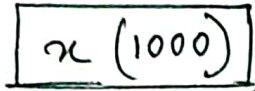
ptr is also a variable

address of operator

same



ptr is storing the address of



So, it will have a base address too.

int x=5, \*ptr = &x;

Output = 10

ptr = &x  
ptr = 1000  
x = 5  
Output = 5