Pointers

- -> A pointer refer to a variable that holds
- the address to another variable.
- have a data type -> If you want to access that particular
- mennory location, then we use & operator
- preceding pointer variable.

 pointer pointer pointer pointer pointer oddres 77 DX155

 poéntes
- inter

 0 × 1 a 3

 lul * ptr

 volue inside

 the pointie = value incide int vor L voriable
 - Examples: (Initialisation of pointer)
 - int a = 100; ent xb= 2a;
 - int * 6;
 6= Da;
 - ampossand means that address is being accessed. Example: (Reassign existing pointer)
 - Ent 6 = 30; int + 2;
 - Syntax:

datatype

inl a = 25;

x = la;

Case 2:

int * val;
float * val;
float * val;

2 Référence operators

returns the variable address F) -> Déférence opérator

+ voriablerane;

- returns the value teral has been stored in memory address I Références: Reference variable com be considered as an
- remains constant and the compuls will apply the # operator. ent a = 30

Reference is like a polnter whose address

allas for an existing variable.

- Pointers 2 Arrays The attray name itself denotes the base address
- use an ampersand (2). p = arr; p= & arr; xx

This means that to assign the address of an among to a pointer, you should not

int arr [20]; ent * ip;

Null pointes

ip = arr;

of the among.

- be assigned, then the be assigned a NVLL.
- during the declaration. Such a pointer is known as NVII pointer, Pointers & variables

pointer variable can

It should be done

- The memony space can be assigned & reassigned ou one wishes. This is made possible by pointer variables.
- Pointer variables point to a specific address in the computer's memony poented to by another variable. ent xp; ent f ?
- Application of pointers
- Arguements to the functions are passed ley value, L any modification done on the

variables doesn't change the value of the

-> Functions in C++ can only return 1 value.

- adual variables that one passed. Dynamic memony allocation
 - new operator delite operator