





What is a pointer??

Basically, Pointers are variables that stores the address of other variables.

Let's see an example:

Point a = 10;

Int a = 10;

Int a pointer;

aptr = 2000

Cout < 2000

Cout < 2000

Cout < 4aptr < endl; // 2000

## Pointer Arithmetic

## Let's see by examples

```
Int maln()?

Prit a=10;

Prit a=10;

Prit aplu = Gra; Stores address

Court <apti <a href="mainto: 4">Char ch = a ;

Char ch = a ;

Court <apti <a href="mainto: 4">Court <a href="mainto: 4">C
```

ointers to Dointers

Eig

Int main () }

int a = 10; 2000

int \* pointer(\*) 4000

P= & a; stores the address of a

Cout << \* P << endl 3//10 4200

Int \*\* q = \$7 p; of p.

Cout << # 9 << end l ; //2000

cout << \* \* \* 49 << end 1°, //10

Thes is known as referencing.

de-referencións
2 times (as \*\* is used)

Mcmory

a=10

P= 2001

= 400D

to function Void increment (int a) Different Variable 'a' a++; Fralue will int main () } dem our unchange int a=2; calling function invament (a); Cout << a << endl ; // 2 > Because, we know from function that, we need to pass values return o; as a parameter and here, a' over two different variables Eng > Swap using pointers too, known as As on calling the function, addressed, Void swap [int \*a, int \*b) ] So, Here initialisation int temp = \*a; of pointer is required. \*a = \*b;+b = temp; Sending dispectly the addresses nt main () 9 a and born the int a=2, b=4; swap ( Ira, tab)°, calling Janction. " << b << endl; otherwise, it won't Cout << a <<" return 0 work of we give only a and b.

Always Keep y

Keep learning!! DREAMS ON