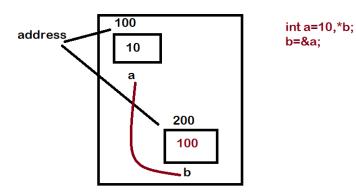
Pointers

Pointer is a variable which stores the address of another variable



Declaration of Pointer Variables:

It is as same as normal variable creation but the only thing we preceded with * symbol Infront the variable

Syntax

Datatype *variable name;

Examples:

Int *no;

Float *b;

Char *c;

Str *a[10];

Note:

Pointer Variable Occupies only 2 bytes size in the memory

Advantages

- Dynamic Memory Allocation
- Dynamic Memory Deallocation
- Allow to return more than on value from a function
- It allows to access data using address
- Pointers are used to solve complex applications

Disadvantages

- It is dangerous
- It is difficult to use
- It is difficult to understand

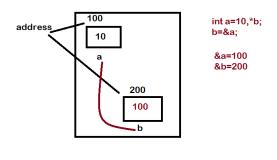
Pointer Operators

It allows only two types of operators

- 1. *
- 2. &

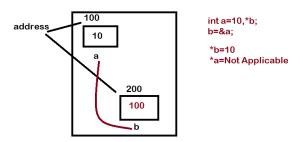
&:

It always gives you the address of another variable, it is also called as address operator



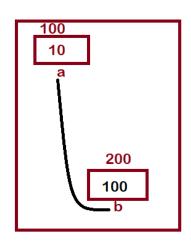
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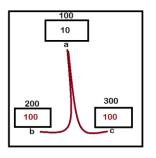
It gives the value of variable which the pointer variable is pointing it is called as value at address pointer



Pointer address

we can assign pointer variable to normal variable or another pointer variable also



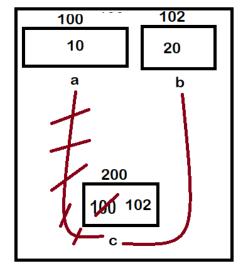


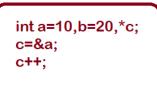
int a=10,*b,*c; b=&a; c=b;

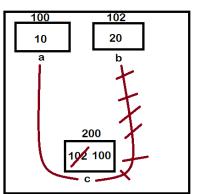
Pointer Operations

We can perform only 2 types of operations using pointers

- 1.++
- 2.- -







int a=10,b=20,*c; c=&b; c-- ;