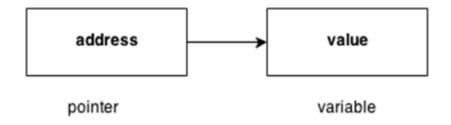
Pointer

Pointers -

• The pointer in C++ language is a variable, it is also known as locator or indicator that points to an address of a value.



Advantage of pointer -

- 1) Pointer reduces the code and improves the performance, it is used to retrieving strings, trees etc. and used with arrays, structures and functions.
- 2) We can return multiple values from function using pointer.
- 3) It makes you able to access any memory location in the computer's memory.

Usage of pointer -

There are many usage of pointers in C++ language.

- 1) Dynamic memory allocation In c language, we can dynamically allocate memory using malloc() and calloc() functions where pointer is used.
- **2) Arrays, Functions and Structures -** Pointers in c language are widely used in arrays, functions and structures. It reduces the code and improves the performance.

Symbols used in pointer -

Symbol	Name	Description
& (ampersand sign)	Address operator	Determine the address of a variable.
* (asterisk sign)	Indirection operator	Access the value of an address.

Declaring a Pointer

```
 Pointer to int – int *a;

  Pointer to char - char *c;
#include<iostream.h>
void main()
  int number = 30;
  int *p;
  p = &number;
  cout<<"Value of number: "<<number;</pre>
  cout<<"Value of p: "<<p;</pre>
  cout<<"Value of *p: "<<*p;</pre>
```