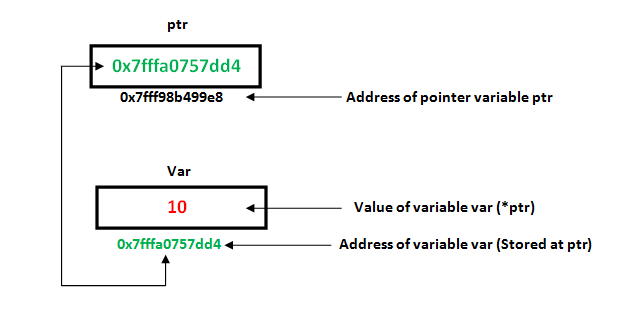
POINTERS

General Syntax

Datatype \*Var\_name;

Int \*ptr;



Operation that can be performed on Pointer

++(increment),- -(Decrement),+,-

Main point These operation mostly help on array

Printing an array using Pointer

//array of pointers

#include<iostream>

using namespace std;

int main(){

/\*int arr[]={11,12,13};

int \*ptr=arr;

for(int i=0;i<3;i++){

cout<<\*ptr++<<" ";

}\*/

Pointer And Multi Dimension Array

int nums[2][3] = { {16, 18, 20}, {25, 26, 27} };

Table

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, Teams

Description automatically generated

Doubt

Text

Description automatically generated with medium confidence

Application of Pointer

**To pass arguments by reference**. Passing by reference serves two purposes

1. **To modify variable of function in other.Swap two variable example**

Text, application

Description automatically generated

For Accessing Array elements.

Compiler Internally Uses pointer to access Array

--Basically 2-D array pointer concept

To Return multiple Values

Dynamic Memory Allocation

Easy to use with Data Structure

--References can’t be used because of their fixed location

To Do system Level programming where memory address is useful