Pointers

Pointer:- Pointer is a variable that holds the address of another variable. They have data type just like variables, for example an integer type pointer can hold the address of an integer variable and an character type pointer can hold the address of char variable. It is denoted by (*).

Syntax:-

data_type *pointer_name;

Example:-

```cpp
#include <iostream>
using namespace std;
int main()
{
int *p;      //Pointer declaration
int var=101;
  p = &var;
  cout<<"Address of var: "<<&var<<endl;
  cout<<"Address of var: "<<p<<endl;
  cout<<"Address of p: "<<&p<<endl;
  cout<<"Value of var: "<<*p;
  return 0;
}
```

Output:-

Address of var: 0x7fff5dfffc0c

Address of var: 0x7fff5dfffc0c

Address of p: 0x7fff5dfffc10

Value of var: 101

Pointer and array:-

Example:-

```cpp
#include <iostream>
using namespace std;
int main()
{
  int *p;          //Pointer declaration
  int arr[]={1, 2, 3, 4, 5, 6};        //Array declaration
  p = arr;
  for(int i=0; i<6;i++)
{
    cout<<*p<<endl;
   p++;
  }
  return 0;
}
```

Output:-

1
2
3
4
5
6

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