

Lab 4-1: Pointers

```
❏ clang++-7 -pthread -std=c++17 -o main main.cpp
❏ ./main
Address of variable value1 assigned to pointer variable longPtr.

Value of the object pointed to by longPtr: 200000

Value of the object pointed to by longPtr assigned to variable value 2.

Value of value2: 200000

Address of value1: 0x7ffeae924098

Address stored in longPtr: 0x7ffeae924098
```

Demonstrated at 11:19 am on September, 9th 2021

**main.cpp**

```
#include <iostream>

using namespace std;

int main() {
    long value1 = 200000;
    long value2;

    long * longPtr;

    longPtr = &value1;
    cout << "Address of variable value1 assigned to pointer variable longPtr." <<
endl;
    cout << endl;

    cout << "Value of the object pointed to by longPtr: " << *longPtr << endl;
    cout << endl;

    value2 = *longPtr;
```

```
    cout << "Value of the object pointed to by longPtr assigned to variable value  
2." << endl;  
    cout << endl;  
  
    cout << "Value of value2: " << value2 << endl;  
    cout << endl;  
  
    cout << "Address of value1: " << &value1 << endl;  
    cout << endl;  
  
    cout << "Address stored in longPtr: " << longPtr;  
    cout << endl;  
}
```