



SUPERIOR UNIVERSITY

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ROLL_NO : 022

SUBJECT: DSA LAB

LAB NO 1

- 1. Create a program that declares an integer variable and a pointer to it. Modify the value of the variable using the pointer and display both the variable and pointer values.**

```
#include <iostream>

using namespace std;

int main() {

    int num = 10, *ptr = &num;

    cout << "Initial - num: " << num << ", *ptr: " << *ptr << endl;

    *ptr = 20;

    cout << "After - num: " << num << ", *ptr: " << *ptr << endl;

    return 0;

}
```

1. `int *ptr = #` Declares a pointer and assigns the address of num.

2. `cout`: Used for displaying output.
3. `*ptr = 20`: Modifies the value of `num` using the pointer.