Introduction to Programming (2)

Pointers and Dynamic Objects

Practice Class

- Upload the report paper in e-class
 - The report paper has to include 1) the source code, 2) the snapshot, and 3) the description of the program
 - File name is date_studentid (ex: 20220915_22xxxxx.docx)

Problem #1

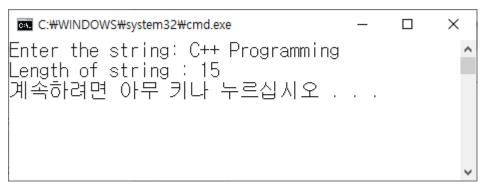
Write a program to compute the length of the input string using pointer

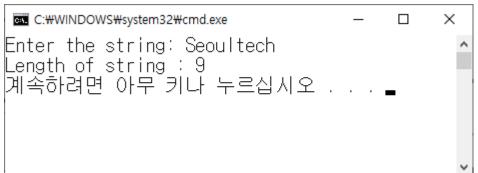
```
#include <iostream>
#define STR_MAX 100

void main() {
    char str[STR_MAX];
    char* p_str = &str[0];
    int count = 0;
    std::cout << "Enter the string: ";
    std::cin.getline(str, STR_MAX);

while (/*To be defined*/) {
        /*To be defined*/
    }

std::cout << "Length of string: " << count << std::endl;
}</pre>
```





Problem #2

Complete the addition functions

```
#include <iostream>
int addition_1(int a, int b) { /*To be defined*/}
void addition_2(int a, int b, int* result) { /*To be defined*/ }
void addition_3(int a, int b, int& result) { /*To be defined*/ }
int main()
    int result1, result2, result3;
    result1 = addition_1(3, 4);

    C:₩Windows₩system32₩cmd.exe

    addition_2(5, 6, &result2);
    addition_3(7, 8, result3);
                                             계속하려면 아무 키나 누르십시오 . . . _
    std::cout << result1 << std::endl;</pre>
    std::cout << result2 << std::endl;
    std::cout << result3 << std::endl;
    return 0;
```