Name: Radhyanas Oetomo NIM: 22/492226/PA/21092 Class: Programming Lab (CS) Assignment 7 Sub-Program

1. Create a program using the calculate_gpa function to calculate the Grade Point Average. The function needs three input parameters, namely:

score an array that contains several course scores

sks an array that contains the number of semester credits for each course n amount of data in the array

The Grade Point Average is calculated using the following formula

In this case, is obtained with the following rules

```
A' = 4
```

'B' = 3

'C' = 2

'D' = 1

'E' = 0

Example:

score ['A', 'B', 'C'] sks [3,3,3]

```
• • •
                                                                                                           Sub Prog...ignment 7 💻 My Mac Finished running Sub Program Assig
     ub Program Assignment 7 
angle 🚞 Sub Program Assignment 7 
angle C' main 
angle [6] main()
        #include <iostream>
#include <iomanip>
using namespace std;
        float gpa(int n, char score[], int sks[]){
   double totalScore = 0, totalSKS = 0;
               for (int i = 1; i <= n; i++){
    totalSKS += sks[i];
    if (score[i] == 'A'){
        totalScore += (4*sks[i]);
    } else if (score[i] == 'B') {
        totalScore += (3*sks[i]);
    }
                              totalScore += (3*sks[i]);
lse if (score[i] == 'C') {
totalScore += (2*sks[i]);
lse if (score[i] == 'D') {
totalScore += (1*sks[i]);
                              lse if (score[i] == 'E') {
 totalScore += (0*sks[i]);
                return totalScore/totalSKS;
        int main() {
               int n;
cout<<"Enter course taken amount "; cin>>n;
                char score[n];
                       cout<<"\nInput Score for Course "<<i<<endl; cin>>score[i];
cout<<"Input total credits "; cin>>sks[i];
                    out<<"GPA: "<<fixed<<setprecision(2)<<gpa(n, score, sks)<<endl;
                                                                                                 Input Score for Course 3
                                                                                                        rt total credits 3
```

```
Enter course taken amount

Input Score for Course 1

A
Input total credits 3

Input Score for Course 2

B
Input total credits 3

Input Score for Course 3

C
Input Score for Course 3

C
Input total credits 3

GPA: 3.00

Program ended with exit code: 0
```

2. Create a program using the string_from_right function to retrieve n characters of a string entered by the user, starting from the right. This function needs two input parameters, namely the string st and int n which represents the number of n characters to be retrieved.

Example:

string_from_right("Yogyakarta ", 5) "karta" string_from_right("Yogyakarta ", 2) "ta"

