SE185: Problem Solving in Software Engineering
Quiz #2 (100 points)

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Answer the following questions and make a pdf file that includes the **source code, sample inputs, and outputs**. You must submit the **pdf file and all of the .c files** on Canvas for full credit. Do not forget to add your group partner name on the pdf file and the source codes.

1. **(50 points)** Write a complete C program that scans in your first and last name, major, year in college (ex. Freshman, sophomore, etc.), and graduation year. Then, print the output in following format:

   Inputs and outputs format:
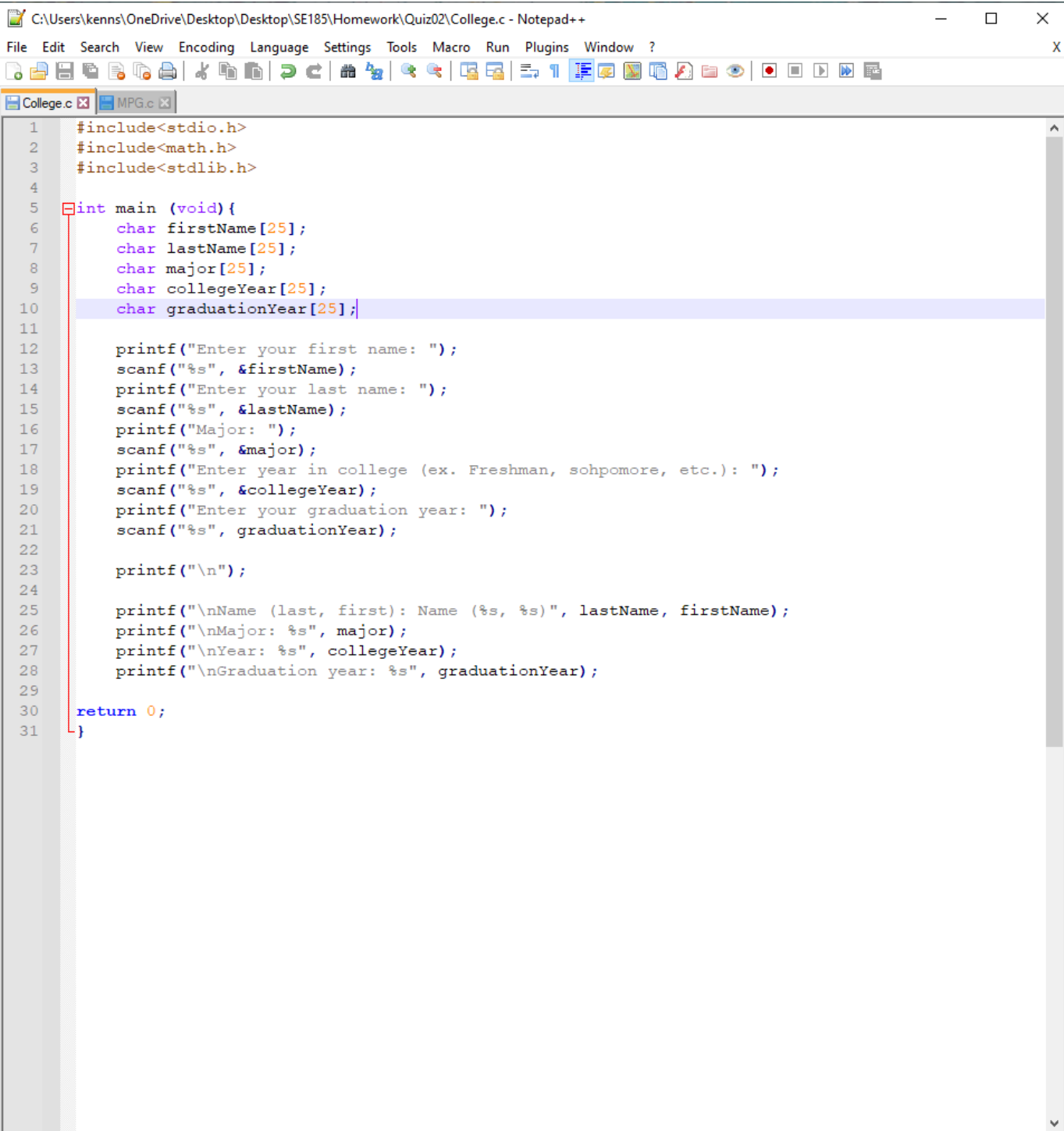
   ```
   Enter your first name: Marcus
   Enter the last name: Kavars
   Enter your major: CPRE
   Enter year in college (ex. Freshman, sophomore, etc.): Freshman
   Enter your graduation year: 2024

   Name (last, first): Name (Kavars, Marcus)
   Major: CPRE
   Year: Freshman
   Graduation year: 2024
   ```

2. **(50 points)** Write a complete c program that ask the user to enter the drivenMiles, milesPerGallon, dollarsPerGallon, and print the dollar cost to drive those miles.

   - Your program must use an user defined function named **DrivingCost** with input parameters **drivenMiles**, **milesPerGallon**, **and dollarsPerGallon**, that **returns the dollar cost** to drive those miles.

   Inputs and outputs format:

   ```
   $ ./test
   Enter driven Miles:300.7

   Enter Miles per Gallon:22.3

   Enter dollars per Gallon:3.1599

   Driving Cost= 42.61
   ```
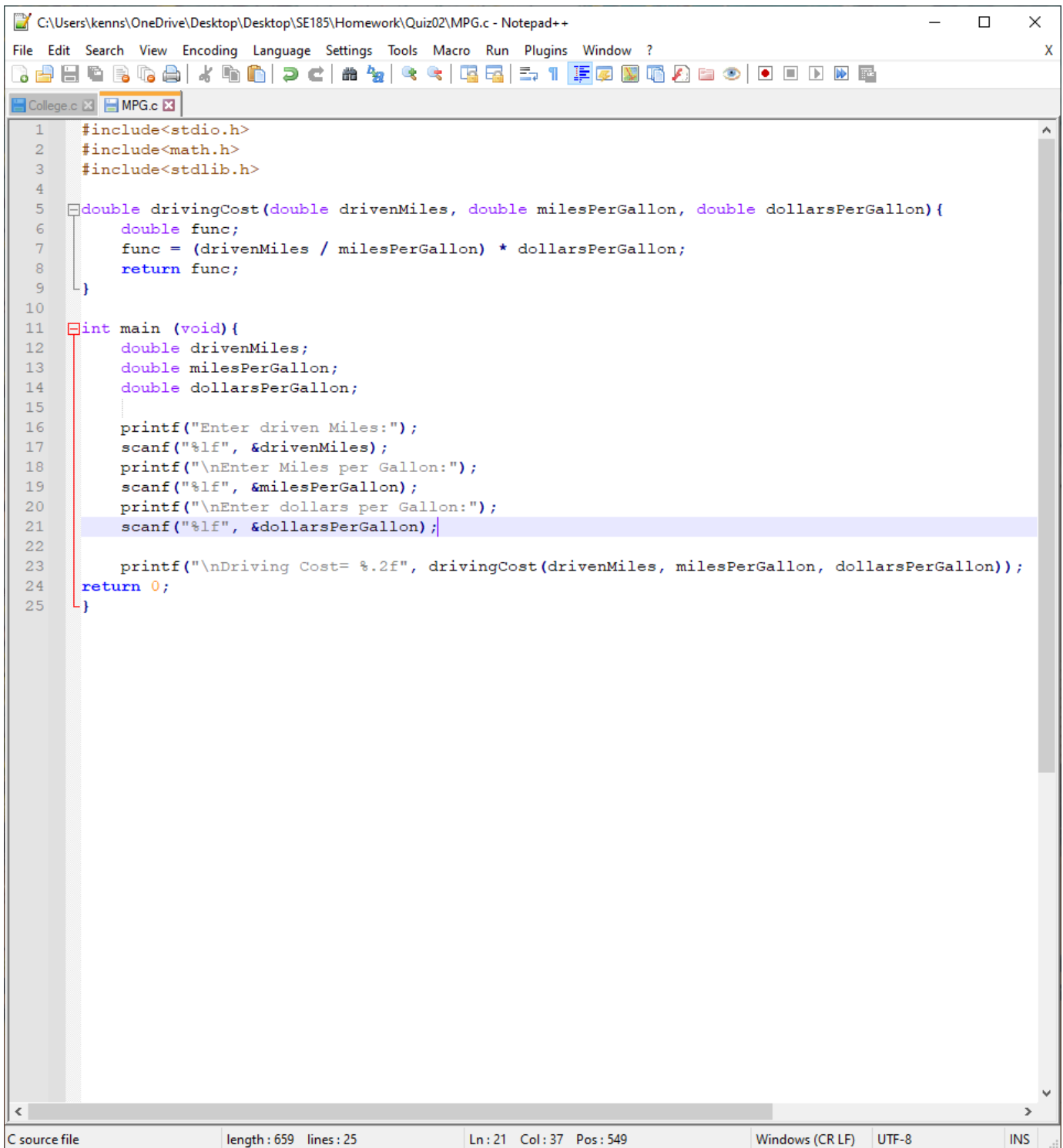
C:\Users\kenns\OneDrive\Desktop\Desktop\SE185\Homework\Quiz02\College.c - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

College.c ⊠   MPG.c ⊠

```c
#include<stdio.h>
#include<math.h>
#include<stdlib.h>

int main (void){
    char firstName[25];
    char lastName[25];
    char major[25];
    char collegeYear[25];
    char graduationYear[25];

    printf("Enter your first name: ");
    scanf("%s", &firstName);
    printf("Enter your last name: ");
    scanf("%s", &lastName);
    printf("Major: ");
    scanf("%s", &major);
    printf("Enter year in college (ex. Freshman, sohpomore, etc.): ");
    scanf("%s", &collegeYear);
    printf("Enter your graduation year: ");
    scanf("%s", graduationYear);

    printf("\n");

    printf("\nName (last, first): Name (%s, %s)", lastName, firstName);
    printf("\nMajor: %s", major);
    printf("\nYear: %s", collegeYear);
    printf("\nGraduation year: %s", graduationYear);

return 0;
}
```

C source file   length : 760   lines : 31   Ln : 10   Col : 29   Pos : 188   Windows (CR LF)   UTF-8   INS

```
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kenns@LAPTOP-L53JNR5E /cygdrive/c/Users/kenns/OneDrive/Desktop/Desktop/SE185/Homework/Quiz02
$ ./college
Enter your first name: Kenneth
Enter your last name: Schueman
major: SE
Enter year in college (ex. Freshman, sohpomore, etc.): Freshman
Enter your graduation year: 2025


Name (last, first): Name (Schueman, Kenneth)
Major: SE
Year: Freshman
Graduation year: 2025
kenns@LAPTOP-L53JNR5E /cygdrive/c/Users/kenns/OneDrive/Desktop/Desktop/SE185/Homework/Quiz02
$ |
```

```c
#include<stdio.h>
#include<math.h>
#include<stdlib.h>

double drivingCost(double drivenMiles, double milesPerGallon, double dollarsPerGallon){
    double func;
    func = (drivenMiles / milesPerGallon) * dollarsPerGallon;
    return func;
}

int main (void){
    double drivenMiles;
    double milesPerGallon;
    double dollarsPerGallon;

    printf("Enter driven Miles:");
    scanf("%lf", &drivenMiles);
    printf("\nEnter Miles per Gallon:");
    scanf("%lf", &milesPerGallon);
    printf("\nEnter dollars per Gallon:");
    scanf("%lf", &dollarsPerGallon);

    printf("\nDriving Cost= %.2f", drivingCost(drivenMiles, milesPerGallon, dollarsPerGallon));
    return 0;
}
```

```
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kenns@LAPTOP-L53JNR5E /cygdrive/c/Users/kenns/OneDrive/Desktop/Desktop/SE185/Homework/Quiz02
$ ./MPG
Enter driven Miles:300.7

Enter Miles per Gallon:22.3

Enter dollars per Gallon:3.1599

Driving Cost= 42.61
kenns@LAPTOP-L53JNR5E /cygdrive/c/Users/kenns/OneDrive/Desktop/Desktop/SE185/Homework/Quiz02
$
```