

Problem 1 Source Code

```
1  #include<stdio.h>
2  #include<math.h>
3  #include<string.h>
4
5  int main(void){
6
7      //defining necessary variables
8      char first[50];
9      char last[50];
10     char major[50];
11     char year[50];
12     int gradYear;
13
14     //ask for user input in the format given
15
16     printf("Enter your first name: ");
17     scanf("%s", &first);
18     printf("Enter the last name: ");
19     scanf("%s", &last);
20     printf("Enter your major: ");
21     scanf("%s", &major);
22     printf("Enter year in college (ex. Freshman, sophomore, etc.): ");
23     scanf("%s", &year);
24     printf("Enter your graduation year: ");
25     scanf("%d", &gradYear);
26
27     //prints user input in the given format
28     printf("\nName (last,First): Name (%s, %s)\n",last,first);
29     printf("Major: %s\n",major);
30     printf("Year: %s\n", year);
31     printf("Graduation year: %d\n", gradYear);
32
33     return 0;
34 }
```

Problem 1 Sample Input Output

```
zhong@JJ-Laptop /cygdrive/c/se185/jaden_burke_quiz02
$ ./college
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
```

Problem 2 Source Code

```

1  #include<stdio.h>
2  #include<math.h>
3  #include<string.h>
4
5  int main(void){
6      double DrivingCost(double drivenMiles,double milesPerGallon,double dollarsPerGallon){
7          double gallonsUsed = drivenMiles / milesPerGallon;
8          double dollarsUsed = gallonsUsed * dollarsPerGallon;
9
10         return dollarsUsed;
11     }
12     double drivenMiles;
13     double milesPerGallon;
14     double dollarsPerGallon;
15
16     printf("\nEnter driven Miles:");
17     scanf("%lf",&drivenMiles);
18     printf("\nEnter Miles per Gallon:");
19     scanf("%lf",&milesPerGallon);
20     printf("\nEnter dollars per Gallon:");
21     scanf("%lf",&dollarsPerGallon);
22     printf("\nDriving cost= %.2lf",DrivingCost(drivenMiles,milesPerGallon,dollarsPerGallon));
23
24     return 0;
25 }

```

Problem 2 Sample Input Output

```

zhong@JJ-Laptop /cygdrive/c/se185/jaden_burke_quiz02
$ ./gas

Enter driven Miles:300.7

Enter Miles per Gallon:22.3

Enter dollars per Gallon:3.1599

Driving cost= 42.61

```