

## Project 6 Report

The objectives of project 6 were pretty similar to project 5, instead now we create a whole new way to store our class data to make it a little easier to manipulate. To do this, we create an entire class called `Course_taken` that allows us to create an array of objects to store all the information in the five parallel arrays at once. This class holds a get, set, and print function. This lets us change the list, get information from the list, and print the list out. Upon termination of the program, using a for loop all the information in the five parallel arrays gets transferred over to the `Course_taken` class and is stored in an object array. This object array is then later stored in an out file called "checking.txt." using a get function to pass placeholder variables in order to print each individual class to the file. While this doesn't add any real functionality to the user, it makes it much easier for later manipulation of the data sets by the programmer. The final part of project 6 was to create a list of requirements for your degree and make the program able to read in that list and output it. Using the data stored in ISIS, I was able to put together a `BSCERequirements.txt` file. I added in the beginning of the program a welcome message that only goes away once the user inputs 'R' or 'r'; upon input, the program stores and lists the entire class requirements file in a string named 'requirements.' There are no known bugs in the program as it is written.

### Input 1

R  
C  
4  
Programming Foundations I  
Fall 2015  
CSCE 2004  
A  
4  
Digital Design  
Fall 2015  
CSCE 2014  
D  
4  
Sociology  
Fall 2015  
SOCI 2003  
B  
3  
Cultural Anthropology  
Fall 2015  
ANTH 2003  
C  
3  
a  
b  
c  
q

### Output 1

Welcome to the University Degree Audit Program!  
Press R to list the requirements for a BS Degree in Computer Engineering

University  
Core  
English  
6  
ENGL  
1013  
3  
ENGL  
1023  
3  
University  
Core  
US  
History  
or  
Government  
3  
HIST  
2003  
3  
HIST  
2013

3  
PLSC  
2003  
3  
Univesity  
Core  
Mathematics  
3  
MATH  
1023  
3  
MATH  
1213  
3  
MATH  
1313  
3  
MATH  
2033  
3  
MATH  
2043  
3  
MATH  
2053  
3  
MATH  
2183  
3  
MATH  
2213  
3  
MATH  
2223  
3  
MATH  
2554  
4  
MATH  
2564  
4  
MATH  
2574  
4  
MATH  
2603  
3  
STAT  
2023  
3  
STAT  
2303  
3  
University  
Core  
Natural  
Science  
8

ANTH  
1013  
3  
ANTH  
1011L  
1  
ASTR  
2003  
3  
ASTR  
2001L  
1  
BIOL  
1003  
3  
BIOL  
1001L  
1  
BIOL  
1543  
3  
BIOL  
1541L  
1  
BIOL  
1603  
3  
BIOL  
1601L  
1  
BIOL  
1613  
3  
BIOL  
1611L  
1  
BIOL  
2213  
3  
BIOL  
2211L  
1  
BIOL  
2443  
3  
BIOL  
2441L  
1  
CHEM  
1053  
3  
CHEM  
1051L  
1  
CHEM  
1073  
3  
CHEM

1071L  
1  
CHEM  
1103  
3  
CHEM  
1101L  
1  
CHEM  
1123  
3  
CHEM  
1121L  
1  
CHEM  
1133  
3  
CHEM  
1131L  
1  
CHEM  
1213  
3  
CHEM  
1211L  
1  
CHEM  
1223  
3  
CHEM  
1221L  
1  
ENSC  
1003  
3  
ENSC  
1001L  
1  
ENTO  
1023  
3  
ENTO  
1021L  
1  
GEOS  
1113  
3  
GEOS  
1111L  
1  
GEOS  
1133  
3  
GEOS  
1131L  
1  
PHYS  
1023

3  
PHYS  
1021L  
1  
PHYS  
1034  
4  
PHYS  
1044  
4  
PHYS  
1054  
4  
PHYS  
2013  
3  
PHYS  
2011L  
1  
PHYS  
2033  
3  
PHYS  
2031L  
1  
PHYS  
2054  
4  
PHYS  
2074  
4  
University  
Core  
Fine  
Arts  
3  
ARCH  
1003  
3  
ARHS  
1003  
3  
COMM  
1003  
3  
DANC  
1003  
3  
ENGL  
2023  
3  
LARC  
1003  
3  
MLIT  
1003  
3  
MLIT

1013  
3  
THTR  
1003  
3  
THTR  
1013  
3  
University  
Core  
Humanities  
3  
AAST  
2023  
3  
ARAB  
2013  
3  
ARAB  
2016  
6  
ARCH  
1013  
3  
CHIN  
2003  
3  
CLST  
1003  
3  
CLST  
1013  
3  
COMM  
1233  
3  
ENGL  
1213  
3  
FREN  
2003  
3  
FREN  
2013  
3  
GERM  
2003  
3  
GERM  
2013  
3  
GNST  
2003  
3  
GREK  
2003  
3  
GREK

2203  
3  
GREK  
2213  
3  
HUMN  
1124H  
4  
HUMN  
2124H  
4  
ITAL  
2003  
3  
ITAL  
2013  
3  
JAPN  
2003  
3  
JAPN  
2013  
3  
LATN  
2003  
3  
LATN  
2013  
3  
MUSY  
2003  
3  
PHIL  
2003  
3  
PHIL  
2103  
3  
PHIL  
2203  
3  
PHIL  
3103  
3  
RUSS  
2003  
3  
RUSS  
2013  
3  
SPAN  
2003  
3  
SPAN  
2013  
3  
SWAH  
2003



3  
SWAH  
2013  
3  
SWAH  
2116  
6  
WLIT  
1113  
3  
WLIT  
1123  
3  
University  
Core  
Social  
Science  
9  
AGEC  
1103  
3  
AGEC  
2103  
3  
ANTH  
1023  
3  
ECON  
2013  
3  
ECON  
2023  
3  
ECON  
2143  
3  
GEOG  
1123  
3  
GEOG  
2003  
3  
HESC  
1403  
3  
HESC  
2413  
3  
HIST  
1113  
3  
HIST  
1123  
3  
HIST  
2003  
3  
HIST

2013  
3  
HUMN  
1114H  
4  
HUMN  
2114H  
4  
PLSC  
2003  
3  
PLSC  
2013  
3  
PLSC  
2203  
3  
PSYC  
2003  
3  
RESM  
2853  
3  
RSOC  
2603  
3  
SOCI  
2013  
3  
SOCI  
2033  
3  
BSCE  
Core  
Computer  
Science/Computer  
Engineering  
39  
CSCE  
2004  
4  
CSCE  
2114  
4  
CSCE  
2014  
4  
CSCE  
2214  
4  
CSCE  
3193  
3  
CSCE  
3953  
3  
CSCE  
3513

3  
CSCE  
3613  
3  
CSCE  
4561  
1  
CSCE  
4114  
4  
CSCE  
4963  
3  
CSCE  
4213  
3  
BSCE  
Core  
CSCE  
Electives  
(may  
take  
1  
STEM  
elective)  
12  
CSCE  
4013  
3  
CSCE  
4043  
3  
CSCE  
4123  
3  
CSCE  
4133  
3  
CSCE  
4233  
3  
CSCE  
4253  
3  
CSCE  
4263  
3  
CSCE  
4323  
3  
CSCE  
4333  
3  
CSCE  
4353  
3  
CSCE  
4423

3  
CSCE  
4433  
3  
CSCE  
4523  
3  
CSCE  
4523  
3  
CSCE  
4543  
3  
CSCE  
4613  
3  
CSCE  
4623  
3  
CSCE  
4643  
3  
CSCE  
4753  
3  
CSCE  
4813  
3  
CSCE  
4853  
3  
CSCE  
4914  
4  
CSCE  
5013  
3  
CSCE  
5033  
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CSCE  
5043  
3  
CSCE  
5053  
3  
CSCE  
5063  
3  
CSCE  
5073  
3  
CSCE  
5203  
3  
CSCE  
5213  
3

CSCE  
5223  
3  
CSCE  
5253L  
3  
CSCE  
5263  
3  
CSCE  
5283  
3  
CSCE  
5313  
3  
CSCE  
5323  
3  
CSCE  
5333  
3  
CSCE  
5363L  
3  
CSCE  
5433  
3  
CSCE  
5533  
3  
CSCE  
5543  
3  
CSCE  
5633  
3  
CSCE  
5643  
3  
CSCE  
5653  
3  
CSCE  
5663  
3  
CSCE  
5683  
3  
CSCE  
5703  
3  
CSCE  
5823  
3  
CSCE  
5843  
3  
CSCE

5983  
3  
BSCE  
Core  
STEM  
Electives  
(if  
not  
already  
in  
12  
hours  
of  
CSCE  
electives)  
3  
ELEG  
3923  
3  
MATH  
4363  
3  
MATH  
4353  
3  
MATH  
4253  
3  
MATH  
4163  
3  
MEEG  
4253  
3  
GEOS  
4113  
3  
GEOS  
4523  
3  
GEOS  
4553  
3  
GEOS  
4583  
3  
GEOS  
4593  
3  
GEOS  
4653  
3  
INEG  
4343  
3  
INEG  
4563  
3

BIOL  
4233H  
3  
BSCE  
Core  
Math/Science  
34  
MATH  
2554  
4  
MATH  
2564  
4  
MATH  
2564C  
4  
MATH  
2574  
4  
MATH  
2574C  
4  
MATH  
3083  
3  
MATH  
2584  
4  
MATH  
2584C  
4  
MATH  
2603  
3  
CHEM  
1103  
3  
CHEM  
1213  
3  
CHEM  
1123  
3  
PHYS  
2054  
4  
PHYS  
2074  
4  
ASTR  
2003  
3  
BIOL  
2001L  
1  
BIOL  
1543  
3

BIOL  
1541L  
1  
ENSC  
1003  
3  
ENSC  
1001L  
1  
GEOL  
1113  
3  
GEOL  
1111L  
1  
BIOL  
1603  
3  
BIOL  
1601L  
1  
BIOL  
2213  
3  
BIOL  
2211L  
1  
CHEM  
1133  
3  
CHEM  
1131L  
1  
PHYS  
3613  
3  
BSCE  
Core  
Communication  
9  
ENGL  
1013  
3  
ENGL  
1023  
3  
COMM  
1313  
3  
BSCE  
Core  
U.S.  
History/Government  
3  
HIST  
2003  
3  
HIST



2013  
3  
PLSC  
2003  
3  
PLSC  
2003H  
3  
BSCE  
Core  
Fine  
Arts/Humanities  
6  
ARCH  
1003  
3  
ARHS  
1003  
3  
COMM  
1003  
3  
DANC  
1003  
3  
ENGL  
2023  
3  
LARC  
1003  
3  
MLIT  
1003  
3  
MLIT  
1013  
3  
THTR  
1003  
3  
THTR  
1013  
3  
PHIL  
3013  
3  
BSCE  
Core  
Social  
Science  
9  
AGEC  
1103  
3  
AGEC  
2103  
3  
ANTH

1023  
3  
ECON  
2013  
3  
ECON  
2023  
3  
ECON  
2143  
3  
GEOG  
1123  
3  
GEOG  
2003  
3  
HESC  
1403  
3  
HESC  
2413  
3  
HIST  
1113  
3  
HIST  
1123  
3  
HIST  
2003  
3  
HIST  
2013  
3  
HUMN  
1114H  
4  
HUMN  
2114H  
4  
PLSC  
2003  
3  
PLSC  
2013  
3  
PLSC  
2203  
3  
PSYC  
2003  
3  
RESM  
2853  
3  
RSOC  
2603

3  
SOCI  
2013  
3  
SOCI  
2033  
3  
BSCE  
Core  
General  
Electives  
6  
!ANTH  
0003  
3  
!PHSC  
0003  
3  
!ENGL  
0003  
3  
!MATH  
0003  
3  
!CIED  
0003  
3  
!MATH  
1203  
3  
!MATH  
1213  
3  
!MATH  
1285  
5  
Engineering  
Core  
Other  
Engineering  
Courses  
9  
GNEG  
1111  
1  
GNEG  
1121  
1  
STAT  
3013  
3  
INEG  
2313  
3  
ELEG  
3933  
3

How would you like to input your course data?

[A] Read in from the default file (courses.txt)

[B] Read in from another specified file

[C] Manual input

Enter how many classes you're taking/have taken:

Class name:

Term of enrollment:

Course number:

Grade:

Hours (1-5):

Class name:

Term of enrollment:

Course number:

Grade:

Hours (1-5):

Class name:

Term of enrollment:

Course number:

Grade:

Hours (1-5):

Class name:

Term of enrollment:

Course number:

Grade:

Hours (1-5):

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

A. Compute the GPA for all courses

B. List all courses

C. Compute the total credit hours of courses with grade D

D. Compute the GPA for a particular semester

E. Add another course to the course list

F. Remove a course from the current list

Q. Quit the program

Your GPA is: 2.5

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
- B. List all courses
- C. Compute the total credit hours of courses with grade D
- D. Compute the GPA for a particular semester
- E. Add another course to the course list
- F. Remove a course from the current list
- Q. Quit the program

You have taken 4 classes.

Classes: Programming Founations I Digital Design Sociology Cultural Anthropology

Terms: Fall 2015 Fall 2015 Fall 2015 Fall 2015

Course Numbers: CSCE 2004 CSCE 2014 SOCI 2003 SOCI 2003

Grades: A D B C

Hours: 4 4 3 3

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
- B. List all courses
- C. Compute the total credit hours of courses with grade D
- D. Compute the GPA for a particular semester
- E. Add another course to the course list
- F. Remove a course from the current list
- Q. Quit the program

Total hours (grade D): 4

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
  - B. List all courses
  - C. Compute the total credit hours of courses with grade D
  - D. Compute the GPA for a particular semester
  - E. Add another course to the course list
  - F. Remove a course from the current list
  - Q. Quit the program
- Successfully outputted course\_taken class data to checking.txt!  
Successfully outputted the five parallel arrays to courses.txt!

**Input 2 (using list from 1)**

R  
A  
a  
b  
f  
0  
y  
b  
q

## Output 2

Welcome to the University Degree Audit Program!  
Press R to list the requirements for a BS Degree in Computer Engineering

University  
Core  
English  
6  
ENGL  
1013  
3  
ENGL  
1023  
3  
University  
Core  
US  
History  
or  
Government  
3  
HIST  
2003  
3  
HIST  
2013  
3  
PLSC  
2003  
3  
Univesity  
Core  
Mathematics  
3  
MATH  
1023  
3  
MATH  
1213  
3  
MATH  
1313  
3  
MATH  
2033  
3

MATH  
2043  
3  
MATH  
2053  
3  
MATH  
2183  
3  
MATH  
2213  
3  
MATH  
2223  
3  
MATH  
2554  
4  
MATH  
2564  
4  
MATH  
2574  
4  
MATH  
2603  
3  
STAT  
2023  
3  
STAT  
2303  
3  
University  
Core  
Natural  
Science  
8  
ANTH  
1013  
3  
ANTH  
1011L  
1  
ASTR  
2003  
3  
ASTR  
2001L  
1  
BIOL  
1003  
3  
BIOL  
1001L  
1  
BIOL  
1543

3  
BIOL  
1541L  
1  
BIOL  
1603  
3  
BIOL  
1601L  
1  
BIOL  
1613  
3  
BIOL  
1611L  
1  
BIOL  
2213  
3  
BIOL  
2211L  
1  
BIOL  
2443  
3  
BIOL  
2441L  
1  
CHEM  
1053  
3  
CHEM  
1051L  
1  
CHEM  
1073  
3  
CHEM  
1071L  
1  
CHEM  
1103  
3  
CHEM  
1101L  
1  
CHEM  
1123  
3  
CHEM  
1121L  
1  
CHEM  
1133  
3  
CHEM  
1131L  
1



CHEM  
1213  
3  
CHEM  
1211L  
1  
CHEM  
1223  
3  
CHEM  
1221L  
1  
ENSC  
1003  
3  
ENSC  
1001L  
1  
ENTO  
1023  
3  
ENTO  
1021L  
1  
GEOS  
1113  
3  
GEOS  
1111L  
1  
GEOS  
1133  
3  
GEOS  
1131L  
1  
PHYS  
1023  
3  
PHYS  
1021L  
1  
PHYS  
1034  
4  
PHYS  
1044  
4  
PHYS  
1054  
4  
PHYS  
2013  
3  
PHYS  
2011L  
1  
PHYS

2033  
3  
PHYS  
2031L  
1  
PHYS  
2054  
4  
PHYS  
2074  
4  
University  
Core  
Fine  
Arts  
3  
ARCH  
1003  
3  
ARHS  
1003  
3  
COMM  
1003  
3  
DANC  
1003  
3  
ENGL  
2023  
3  
LARC  
1003  
3  
MLIT  
1003  
3  
MLIT  
1013  
3  
THTR  
1003  
3  
THTR  
1013  
3  
University  
Core  
Humanities  
3  
AAST  
2023  
3  
ARAB  
2013  
3  
ARAB  
2016

6  
ARCH  
1013  
3  
CHIN  
2003  
3  
CLST  
1003  
3  
CLST  
1013  
3  
COMM  
1233  
3  
ENGL  
1213  
3  
FREN  
2003  
3  
FREN  
2013  
3  
GERM  
2003  
3  
GERM  
2013  
3  
GNST  
2003  
3  
GREK  
2003  
3  
GREK  
2203  
3  
GREK  
2213  
3  
HUMN  
1124H  
4  
HUMN  
2124H  
4  
ITAL  
2003  
3  
ITAL  
2013  
3  
JAPN  
2003  
3

JAPN  
2013  
3  
LATN  
2003  
3  
LATN  
2013  
3  
MUSY  
2003  
3  
PHIL  
2003  
3  
PHIL  
2103  
3  
PHIL  
2203  
3  
PHIL  
3103  
3  
RUSS  
2003  
3  
RUSS  
2013  
3  
SPAN  
2003  
3  
SPAN  
2013  
3  
SWAH  
2003  
3  
SWAH  
2013  
3  
SWAH  
2116  
6  
WLIT  
1113  
3  
WLIT  
1123  
3  
University  
Core  
Social  
Science  
9  
AGEC  
1103

3  
AGEC  
2103  
3  
ANTH  
1023  
3  
ECON  
2013  
3  
ECON  
2023  
3  
ECON  
2143  
3  
GEOG  
1123  
3  
GEOG  
2003  
3  
HESC  
1403  
3  
HESC  
2413  
3  
HIST  
1113  
3  
HIST  
1123  
3  
HIST  
2003  
3  
HIST  
2013  
3  
HUMN  
1114H  
4  
HUMN  
2114H  
4  
PLSC  
2003  
3  
PLSC  
2013  
3  
PLSC  
2203  
3  
PSYC  
2003  
3

RESM  
2853  
3  
RSOC  
2603  
3  
SOCI  
2013  
3  
SOCI  
2033  
3  
BSCE  
Core  
Computer  
Science/Computer  
Engineering  
39  
CSCE  
2004  
4  
CSCE  
2114  
4  
CSCE  
2014  
4  
CSCE  
2214  
4  
CSCE  
3193  
3  
CSCE  
3953  
3  
CSCE  
3513  
3  
CSCE  
3613  
3  
CSCE  
4561  
1  
CSCE  
4114  
4  
CSCE  
4963  
3  
CSCE  
4213  
3  
BSCE  
Core  
CSCE  
Electives

(may  
take  
1  
STEM  
elective)  
12  
CSCE  
4013  
3  
CSCE  
4043  
3  
CSCE  
4123  
3  
CSCE  
4133  
3  
CSCE  
4233  
3  
CSCE  
4253  
3  
CSCE  
4263  
3  
CSCE  
4323  
3  
CSCE  
4333  
3  
CSCE  
4353  
3  
CSCE  
4423  
3  
CSCE  
4433  
3  
CSCE  
4523  
3  
CSCE  
4523  
3  
CSCE  
4543  
3  
CSCE  
4613  
3  
CSCE  
4623  
3  
CSCE

4643  
3  
CSCE  
4753  
3  
CSCE  
4813  
3  
CSCE  
4853  
3  
CSCE  
4914  
4  
CSCE  
5013  
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CSCE  
5033  
3  
CSCE  
5043  
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CSCE  
5053  
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CSCE  
5063  
3  
CSCE  
5073  
3  
CSCE  
5203  
3  
CSCE  
5213  
3  
CSCE  
5223  
3  
CSCE  
5253L  
3  
CSCE  
5263  
3  
CSCE  
5283  
3  
CSCE  
5313  
3  
CSCE  
5323  
3  
CSCE  
5333



3  
CSCE  
5363L  
3  
CSCE  
5433  
3  
CSCE  
5533  
3  
CSCE  
5543  
3  
CSCE  
5633  
3  
CSCE  
5643  
3  
CSCE  
5653  
3  
CSCE  
5663  
3  
CSCE  
5683  
3  
CSCE  
5703  
3  
CSCE  
5823  
3  
CSCE  
5843  
3  
CSCE  
5983  
3  
BSCE  
Core  
STEM  
Electives  
(if  
not  
already  
in  
12  
hours  
of  
CSCE  
electives)  
3  
ELEG  
3923  
3  
MATH

4363  
3  
MATH  
4353  
3  
MATH  
4253  
3  
MATH  
4163  
3  
MEEG  
4253  
3  
GEOS  
4113  
3  
GEOS  
4523  
3  
GEOS  
4553  
3  
GEOS  
4583  
3  
GEOS  
4593  
3  
GEOS  
4653  
3  
INEG  
4343  
3  
INEG  
4563  
3  
BIOL  
4233H  
3  
BSCE  
Core  
Math/Science  
34  
MATH  
2554  
4  
MATH  
2564  
4  
MATH  
2564C  
4  
MATH  
2574  
4  
MATH

2574C

4

MATH

3083

3

MATH

2584

4

MATH

2584C

4

MATH

2603

3

CHEM

1103

3

CHEM

1213

3

CHEM

1123

3

PHYS

2054

4

PHYS

2074

4

ASTR

2003

3

BIOL

2001L

1

BIOL

1543

3

BIOL

1541L

1

ENSC

1003

3

ENSC

1001L

1

GEOL

1113

3

GEOL

1111L

1

BIOL

1603

3

BIOL

1601L

1  
BIOL  
2213  
3  
BIOL  
2211L  
1  
CHEM  
1133  
3  
CHEM  
1131L  
1  
PHYS  
3613  
3  
BSCE  
Core  
Communication  
9  
ENGL  
1013  
3  
ENGL  
1023  
3  
COMM  
1313  
3  
BSCE  
Core  
U.S.  
History/Government  
3  
HIST  
2003  
3  
HIST  
2013  
3  
PLSC  
2003  
3  
PLSC  
2003H  
3  
BSCE  
Core  
Fine  
Arts/Humanities  
6  
ARCH  
1003  
3  
ARHS  
1003  
3  
COMM

1003  
3  
DANC  
1003  
3  
ENGL  
2023  
3  
LARC  
1003  
3  
MLIT  
1003  
3  
MLIT  
1013  
3  
THTR  
1003  
3  
THTR  
1013  
3  
PHIL  
3013  
3  
BSCE  
Core  
Social  
Science  
9  
AGEC  
1103  
3  
AGEC  
2103  
3  
ANTH  
1023  
3  
ECON  
2013  
3  
ECON  
2023  
3  
ECON  
2143  
3  
GEOG  
1123  
3  
GEOG  
2003  
3  
HESC  
1403  
3

HESC  
2413  
3  
HIST  
1113  
3  
HIST  
1123  
3  
HIST  
2003  
3  
HIST  
2013  
3  
HUMN  
1114H  
4  
HUMN  
2114H  
4  
PLSC  
2003  
3  
PLSC  
2013  
3  
PLSC  
2203  
3  
PSYC  
2003  
3  
RESM  
2853  
3  
RSOC  
2603  
3  
SOCI  
2013  
3  
SOCI  
2033  
3  
BSCE  
Core  
General  
Electives  
6  
!ANTH  
0003  
3  
!PHSC  
0003  
3  
!ENGL  
0003

3  
!MATH  
0003  
3  
!CIED  
0003  
3  
!MATH  
1203  
3  
!MATH  
1213  
3  
!MATH  
1285  
5  
Engineering  
Core  
Other  
Engineering  
Courses  
9  
GNEG  
1111  
1  
GNEG  
1121  
1  
STAT  
3013  
3  
INEG  
2313  
3  
ELEG  
3933  
3

How would you like to input your course data?

- [A] Read in from the default file (courses.txt)
- [B] Read in from another specified file
- [C] Manual input

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
- B. List all courses
- C. Compute the total credit hours of courses with grade D
- D. Compute the GPA for a particular semester
- E. Add another course to the course list
- F. Remove a course from the current list
- Q. Quit the program

Your GPA is: 2.5

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
- B. List all courses
- C. Compute the total credit hours of courses with grade D
- D. Compute the GPA for a particular semester
- E. Add another course to the course list
- F. Remove a course from the current list
- Q. Quit the program

You have taken 4 classes.

Classes: Programming Foundations I Digital Design Sociology Cultural Anthropology

Terms: Fall 2015 Fall 2015 Fall 2015 Fall 2015

Course Numbers: CSCE 2004 CSCE 2014 SOCI 2003 ANTH 2003

Grades: A D B C

Hours: 4 4 3 3

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
- B. List all courses
- C. Compute the total credit hours of courses with grade D
- D. Compute the GPA for a particular semester
- E. Add another course to the course list
- F. Remove a course from the current list
- Q. Quit the program

Enter the index of the course you'd like to remove

[0] Programming Foundations I

[1] Digital Design

[2] Sociology

[3] Cultural Anthropology

Is this the course you'd like to remove?

Name: Programming Foundations I

Semester: Fall 2015

Course Number: CSCE 2004

Grade: A

Hours: 4

y/n

Course deleted.

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
- B. List all courses



- C. Compute the total credit hours of courses with grade D
- D. Compute the GPA for a particular semester
- E. Add another course to the course list
- F. Remove a course from the current list
- Q. Quit the program

You have taken 3 classes.

Classes: Digital Design Sociology Cultural Anthropology

Terms: Fall 2015 Fall 2015 Fall 2015

Course Numbers: CSCE 2014 SOCI 2003 ANTH 2003

Grades: D B C

Hours: 4 3 3

Welcome to the GPA and Course storage program menu.

Now that you've entered your class information, please enter the character next to the choice you wish to pick.

- A. Compute the GPA for all courses
  - B. List all courses
  - C. Compute the total credit hours of courses with grade D
  - D. Compute the GPA for a particular semester
  - E. Add another course to the course list
  - F. Remove a course from the current list
  - Q. Quit the program
- Successfully outputted course\_taken class data to checking.txt!  
Successfully outputted the five parallel arrays to courses.txt!