

# Assignment Three

Python Programming

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Concepts of Programming Languages

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Section W01

4308



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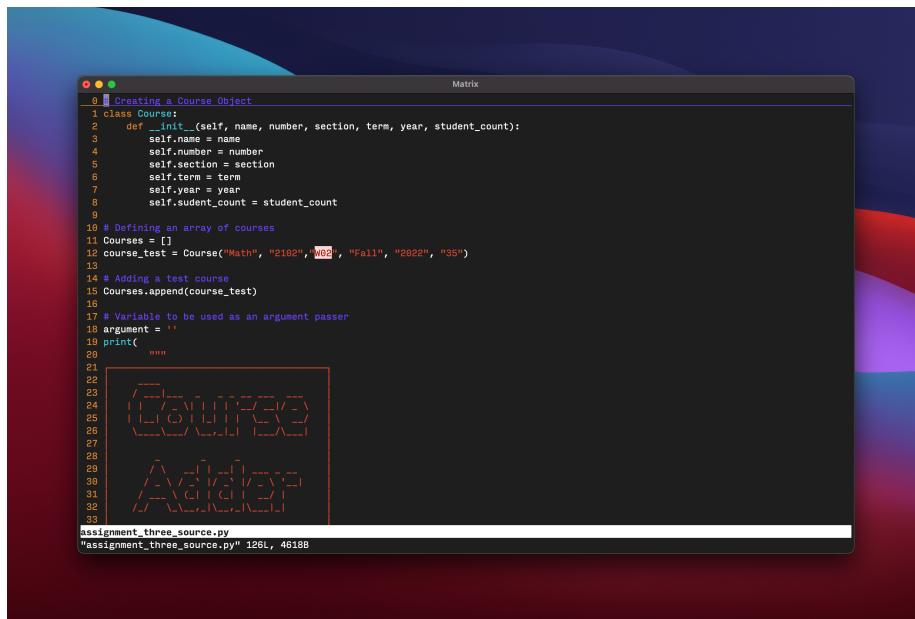
## Task

The development of a python program to manage course information for the user.

## Assignment Goals

- Define a class for a Course Object
- Allow the user to add a new course object
- Allow the user to change the course object
- List all the courses that have been added to the list

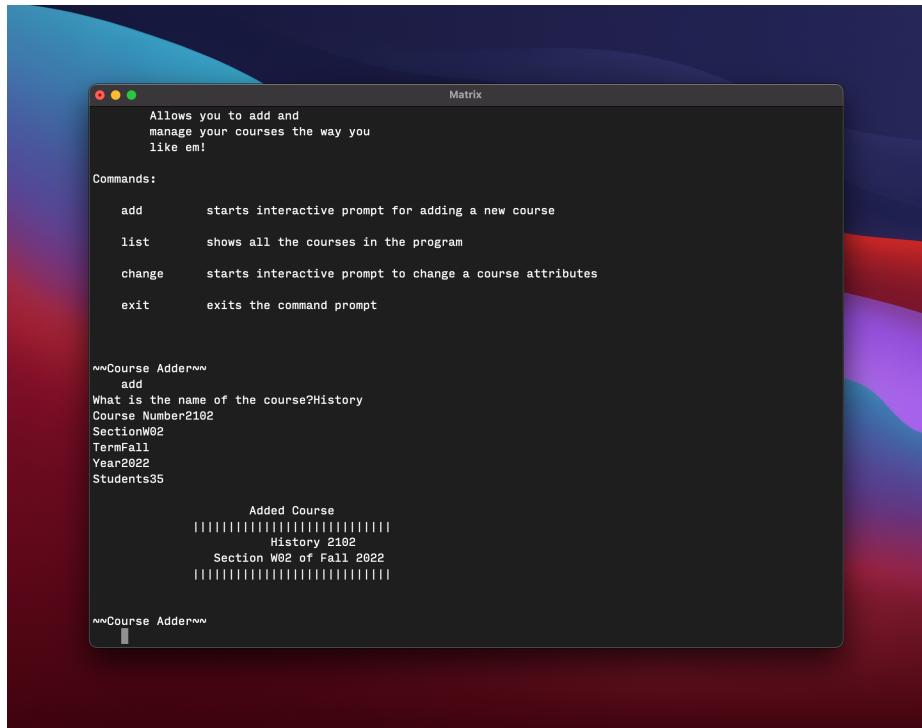
## Source Code



```
0  # Creating a Course Object
1 class Course:
2     def __init__(self, name, number, section, term, year, student_count):
3         self.name = name
4         self.number = number
5         self.section = section
6         self.term = term
7         self.year = year
8         self.student_count = student_count
9
10 # Defining an array of courses
11 Courses = []
12 course_test = Course("Math", "2102", "W02", "Fall", "2022", "35")
13
14 # Adding a test course
15 Courses.append(course_test)
16
17 # Variable to be used as an argument passer
18 argument = ''
19 print(
20     """
21
22     _____
23     |    / \    |    |    / \    |
24     | [ ] ( ) |    |    |    |    |
25     | \_ \ / \_ |    |    |    |    |
26     |   \_ \ / \_ |    |    |    |
27     |
28     _____
29     |    / \    |    |    / \    |
30     | [ ] ( ) |    |    |    |    |
31     | \_ \ / \_ |    |    |    |    |
32     |   \_ \ / \_ |    |    |    |
33
assignment_three_source.py
"assignment_three_source.py" 126L, 4618B
```

## Run Output

## Add Output



Matrix

```
Allows you to add and
manage your courses the way you
like em!

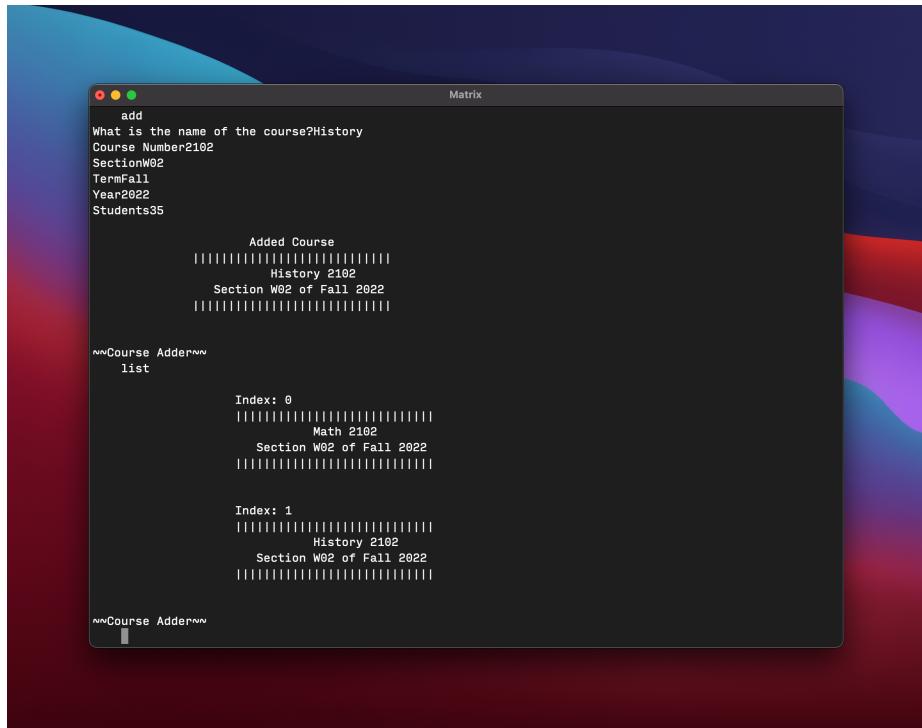
Commands:
add      starts interactive prompt for adding a new course
list     shows all the courses in the program
change   starts interactive prompt to change a course attributes
exit     exits the command prompt

~~Course Adder~~
add
What is the name of the course?History
Course Number2102
SectionW02
TermFall
Year2022
Students35

Added Course
||||||| History 2102
          Section W02 of Fall 2022
|||||||
```

~~Course Adder~~

## List Output



```
add
What is the name of the course?History
Course Number2102
SectionW02
TermFall
Year2022
Students35

Added Course
||||||| History 2102
Section W02 of Fall 2022
|||||||


~~Course Adder~~
list

Index: 0
||||||| Math 2102
Section W02 of Fall 2022
|||||||


Index: 1
||||||| History 2102
Section W02 of Fall 2022
|||||||


~~Course Adder~~
```

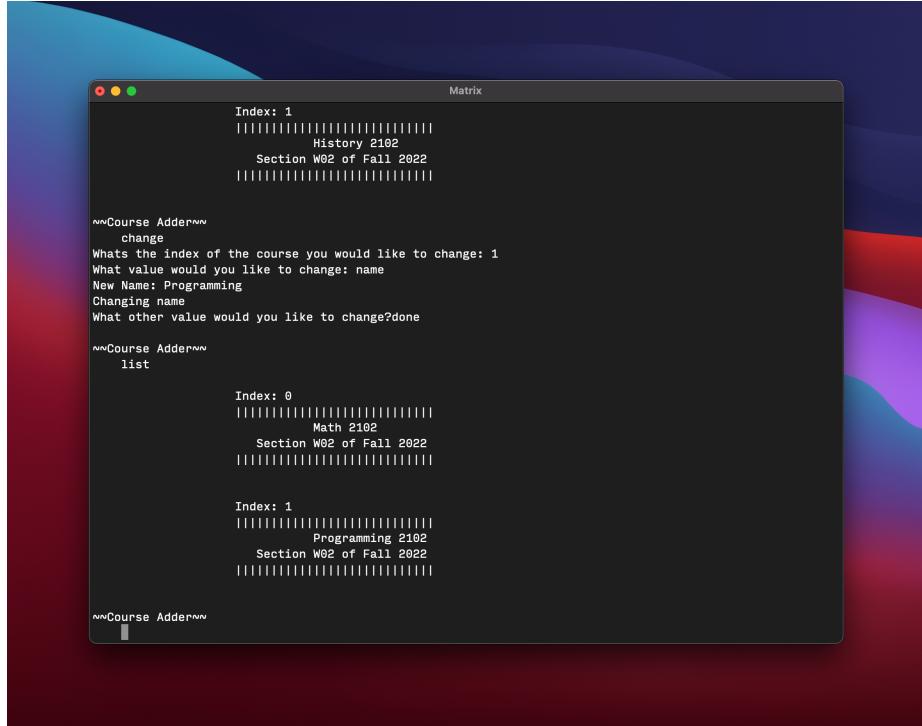
## Change Output

The screenshot shows a terminal window titled "Matrix" running on a Mac OS X desktop. The window displays the following text:

```
Added Course
|||||||History 2102
Section W02 of Fall 2022
|||||||
~~Course Adder~~
list

Index: 0
|||||||Math 2102
Section W02 of Fall 2022
|||||||
Index: 1
|||||||History 2102
Section W02 of Fall 2022
|||||||
~~Course Adder~~
change
What's the index of the course you would like to change: 1
What value would you like to change: name
New Name: Programming
Changing name
What other value would you like to change?done
~~Course Adder~~
list
```

## List After Change Output



```
Matrix
Index: 1
||||||| History 2102
      Section W02 of Fall 2022
|||||||
~~Course Adder~~
change
Whats the index of the course you would like to change: 1
What value would you like to change: name
New Name: Programming
Changing name
What other value would you like to change?done
~~Course Adder~~
list

Index: 0
||||||| Math 2102
      Section W02 of Fall 2022
|||||||
Index: 1
||||||| Programming 2102
      Section W02 of Fall 2022
|||||||
~~Course Adder~~
```

## 0.1 Summary

After finishing this assignment I had a greater understanding of python than I did coming in. Python is rarely a language I use but with the tools learned in the class about how languages are formulated it made it seem easier to put the basic building blocks of language together and use them for my own ends such as in this programming assignment.