SCIT, University of Wollongong

CSIT110: Fundamental Programming with Python

Term 2 – 2019

Assignment 1 (10%) due on 14th April 2019 23:55PM (Wollongong NSW time)

Objective

- Able to write clear code with comments and follow coding convention
- Able to use print function for output
- Able to use variables
- Able to use string concatenation
- Able to use escape sequences
- Able to use string format
- Able to use output alignment
- Able to get user input
- Able to use if-else statement
- Able to use for and while loop statement
- Able to use numerical calculation

Submission instructions

1. Put all your python code into a single file and submit it via Moodle.
2. After the submission, please click on the link to the submitted file to verify that the file can be displayed correctly. If your file cannot be displayed, please copy your code into a text file and resubmit it.
3. Late submissions will be marked with a 25% marks deduction for one day late, including weekend. Submissions more than 3 days late will not be marked.
4. If you need an extension, please apply for an Academic Consideration through SOLS on or before the assignment due date.
5. Plagiarism is treated seriously. If we suspect any work is copied, all students involved are likely to receive zero for the entire assignment

Assignment questions. (10 marks)

Write clear code with comments and follow coding convention. Comments should include your name, student number and subject code on top of your code.

Write a python program to

1. Load a gamer avatar data file. (see appendix)
2. Ask the user to input the avatar ID
3. Display the avatar details with that avatar ID.

Below are three sample runs of the required python program.

```
Enter Avatar ID:N321B
=============================================
Avatar ID | Avatar Name | Avatar Tribe
X321D     |        Aang | Normad
=============================================
Four Elements Power
=============================================
Air | Water | Earth | Fire | Average Power
 89 |    67 |    54 |   78 |     72.0
=============================================
```

```
Enter Avatar ID:Z765A
No Avatar record found
```

```
Enter Avatar ID:
Empty input, please enter again

Enter Avatar ID:O111C
=============================================
Avatar ID | Avatar Name | Avatar Tribe
O111C     |      Gyatso | Omaticaya
=============================================
Four Elements Power
=============================================
Air | Water | Earth | Fire | Average Power
 54 |    78 |    65 |   54 |     62.75
=============================================
```

Analyse the above three outputs carefully and follows the required display format.

Appendix

File format for the data.csv

```
name,tribe,id,Air,Water,Earth,Fire
Aang,Normad,N321B,89,67,54,78
Gyatso,Omaticaya,O111C,54,78,65,54
```

Use the following Python codes to read and display the data.csv file

```
import csv
filePath = "data.csv"
with open(filePath) as csvfile:
    reader = csv.DictReader(csvfile)
    for row in reader:
        print(row['name'], row['tribe'])
```

END OF THE ASSIGNMENT