**Task 3 Presac1 sample answer**

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**GUI**

**Section 1 – please write comments at the bottom of this section as the teacher explains it.**

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**Section 2 – please write comments at the bottom of this section as the teacher explains it.**

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**Section 3 – please write comments at the bottom of this section as the teacher explains it.**

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**Section 4 – please write comments at the bottom of this section as the teacher explains it.**

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**Section 5 – please write comments at the bottom of this section as the teacher explains it.**

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**Section 6 – please write comments at the bottom of this section as the teacher explains it.**

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**Exercise**

In Section 6, you will notice that the CSV file writing being slightly incorrect due to a bug:

Data needs to be written from column A, not column B

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Modification of Rating is stored, but causes the next line of data to be written next to it. This should be written on the next line.

Correct the provided code to eliminate the bug

Exercise (write code for each exercise):

1. Get the Excel data from:

<https://www.kaggle.com/rishidamarla/largest-2000-companies-in-the-world-by-revenue>

1. Save as a CSV file to a folder of your choice.
2. Write code to open this CSV file and load it into a 2 dimension array. Call this array ‘companies’.
3. Verify that the data has been stored correctly by using msgbox (companies(x,y) where x and y denote the coordinates of a random data within the array.
4. Search for a company that has a market value between 100 and 200 million dollars. Display the details of this company in a textbox.
5. Find the average market values of all companies listed.