Introduction To Programming: Independent Investigative Effort 3

Due: See Canvas→Assignments for due dates, marks and submission link.
Note: Marking will take in to consideration the shorter work-week this week.

Please follow/complete all steps below in the given sequence:

1. Check your official RMIT @student.rmit.edu.au email account for important communication including announcements.

2. Watch any unwatched recordings of the **Weekly Live Lectorial** (IIE02 solution discussion was on 14/Jun) and your tutor's **Weekly Assessment Help Tutorial** (which will give help on the next IIE). Did you know that there are timestamps under Canvas→Announcements to help you find the information within the Live Lectorial?

3. Follow the exercises under Canvas→Modules→Week 3.
If there are any unresolved issues or questions, students are required initiate discussion and ask their group's tutor via the Canvas→Discussions→IIE03 forum. All/any forums under Canvas→Modules (embedded alongside lesson materials) are for peer learning only and tutors do not monitor these.

4. Early weeks are crucial for students. Please complete the **Week 3 Survey**, with short answers (only 3 questions): https://forms.office.com/r/idvTqNMkh2

Tip: Ensure that you have logged in to Microsoft Office using only your @student.rmit.edu.au account (and that you have logged out of any other Microsoft accounts).

5. Submit a single .py file containing the final effort for parts **5a and 5b** below via Canvas→Assignments→IIE03 (not via Canvas→Discussions→IIE03). You can resubmit any number of times but only your last set of files will be considered for official records, grading and timing purposes.

Coding exercise steps (Hint: Need help? Your tutors will give you a brief demonstration of the concepts during the ***'Weekly Assessment Help Tutorial'*** this week. You can also make a post via Canvas→Discussions→IIE03 and ask your tutor about the specific issue that you are facing**).** Note that tutors can give you directions (not solutions) but all coding and debugging effort must be demonstrated by the student.

a. (Before you start, please ensure that you have completed exercises under Canvas→Modules→Week 3; these exercises should not be submitted; use them as practice for the following which should be submitted)

Ensure that you incorporate the final set of concepts from the 14/June/2022 Weekly Live Lectorial recording. Now create a new .py file with the following layout:

```
import sys

def main():
    Insert your IIE03 code or solution adapted from 14/June/2022 Live Lectorial here to get started

main()
```

Feel free to define more functions and call them but only if they reduce code/logic duplication. Things to avoid:

1. Do not add def statements inside bodies of def statements.
2. Do not add your own code (other than what's given in the above template) outside the body of a def statement.
3. You are permitted to create additional defs (at the top level) and call/invoke them as necessary. However, when you create a def, you must only do so if it can reduce code/logic duplication.

Remember, the aim is to investigate and gain relevant experience with the constraints. Do not think of there being a "correct answer" when you do an IIE.

b. Add function annotations to all functions that you have created. Tip: This will likely need you to make some more code changes to the code from 5a (above) to warrant the use of function annotations. Remember to refer to watch your tutor's Weekly Assessment Help Webinar (or its recording) for important help on 5a and 5b.

Again, the aim is to investigate and gain relevant experience with the constraints. Do not think of there being a "correct answer" when you do an IIE.

c. (Optional for the IIE) Practice justifications based on the justification criteria given in IIE02. As some of you will need more/less help on this than others, you are expected to speak to your tutors as needed for help on justifications.

6. Have more questions? Post as many questions as you like under Canvas→Discussions→IIE03 and need to get the work done! If there is an issue, your tutors will help you.