Introduction To Programming: Independent Investigative Effort 12

(See Canvas→Assignments for due dates and marks. Late submissions incur a 10% penalty on the full mark for each working date late; submission cut-off is 5 working days late. Marks turnaround time is approx. 10 working days after submissions close.)

Having trouble with watching recordings, usernames, passwords, access, etc.? Please call the RMIT IT Service and Support Centre for quick help on 03-9925 8888 and remember to ask for a reference number and pass it on to your instructor.

Need extensions or special consideration? Please apply for special consideration online.

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

1. Please check your official RMIT Student email account for important course communication.

2.a. Watch any unwatched recordings of the **Weekly Live Lecture** and do all missed tutorials before going further. Gaps in programming concepts will lead to difficulties. If you need further help, please also watch your Group's chat recordings.

2.b. If you need help in addition to what has been shown in the compulsory weekly live lecture, you are also expected to speak to your **group tutor via discussion forums** and attend/watch their live sessions. Please note that group tutors cannot debug your assessment code on your behalf as debugging is a part of every programming assessment.

3. Check any available feedback of your previous submissions and if you have any unresolved questions or if you need further feedback, post the relevant parts of your submitted work in a new post under Canvas→Discussions→Independent Investigative Effort and ask from your instructor. E.g. you can ask "*Gayan showed _____ but I did mine like _____, so which is the better approach and why?*", etc. Please note that the university requires teaching to be conducted in an equitable manner so please only use email for matters such as special consideration.

4. How did you go during the past week? Please give feedback to Gayan so he can improve your learning experience, before it's too late, during this study period itself!

5. Please do both a and b.

a. This sub-task requires you to try out file reading as given in Canvas→Modules→Week 11. Make a copy of the IIE11 project and name it IIE12. Ensure that your program follows the Object Oriented design of the solution shown on 16/Nov/2020 live lecture. Now incorporate file writing so that all of the data is written back to the file from which it was read. You can also give the user the option to choose a different file but if you do, you must also make the necessary changes to load from a different file.
Ask you stuck? Create a post in the relevant forum and as your tutor for help.

b. This sub-task uses concepts from Canvas→Modules→Week 12. Create a discussion forum post **(do not attach files)** with approximately the same algorithm, first implemented in Python and then in Java. (Your Python program does not need to run or be syntactically valid). Both programs should contain at least an if-statement and a while-loop. Alternatively do or optionally add another, the same algorithm implemented in C and Java.

Tip: Find an existing Python program online by searching in Google using the *filetype:py* operator in your Google search query then translate it to Java by yourself. Remember to give a full reference using the IEEE referencing style. Ask your tutor questions if you have any. If your tutor asks questions, you must reply to them.

Ask you stuck? Create a post in the relevant forum and as your tutor for help.

Remember to modify and incorporate any feedback that you tutor gives you.

Remember to ask your tutors for direction if you need help.

Submission Checklist for Step 5:
a. Ensure steps above have been followed in sequence. Format your code.
b. Ensure that there are no red dots (compilation errors) in your Java code. Code with red dots are not valid Java and cannot be marked.
c. Go to Canvas→Assignments→Independent Investigative Effort 12 (this will take you to the discussion forum by the same name).
d. Follow the demonstration on how to submit a file via the discussion forum and post/submit **just screenshots of the code and produced outputs. If your code is too big for the screenshots, also submit the relevant source code files along with the screenshots of your outputs.**
e. Download your own files from the discussion forum and ensure that it is correct. If it is not, you can delete your post and retry.