PYTHON PROGRAMMING
Final Assignment

Use the text file given to you to solve the question below. The text file contains conversations of the WhatsApp group of your batch. (Export the WhatsApp group conversation as a text file from the WhatsApp app)

1. Find the list of unique members who has interacted at least once in this group.   **(5 marks)**

2. Design a function named `conversation_by_date(file, date)` that will help us to extract the entire conversation which happened on a particular date. As shown, this function should take two arguments: **(10 marks)**
   a. file: A text file that contains the WhatsApp chat conversation
   b. `date`: A date of interest DD/MM/YYYY format.

3. Design a function named `conversation_by_person(file, person)` that will help us to extract all the posts done by a particular person. As shown, this function should take two arguments:
   a. file: A text file that contains the WhatsApp chat conversation   **(10 marks)**
   b. `person`: A person of interest

4. Which part of the day (AM or PM) does this group experience most conversation?   **(10 marks)**

5. Find the frequency distribution of the hours…?   **(5 marks)**

6. Design a function named `avg_length_by_person(file, person)` that will help us to get the average length of the messages posted by a particular person. As shown, this function should take two arguments: **(10 marks)**
   a. file: A text file that contains the WhatsApp chat conversation
   b. person: A person of interest