Welcome to this CoGrammar Tutorial: Task Walkthrough

The session will start shortly...

Questions? Drop them in the chat.
We'll have dedicated moderators
answering questions.







Software Engineering Session Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly.
 (Fundamental British Values: Mutual Respect and Tolerance)
- No question is daft or silly ask them!
- There are Q&A sessions midway and at the end of the session, should you
 wish to ask any follow-up questions. Moderators are going to be
 answering questions as the session progresses as well.
- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Academic Sessions. You can submit these questions here: <u>Questions</u>



Software Engineering Session Housekeeping cont.

- For all non-academic questions, please submit a query:
 www.hyperiondev.com/support
- Report a safeguarding incident:
 www.hyperiondev.com/safeguardreporting
- We would love your feedback on lectures: <u>Feedback on Lectures</u>
- If you are hearing impaired, please kindly use your computer's function through Google chrome to enable captions.

Safeguarding & Welfare

We are committed to all our students and staff feeling safe and happy; we want to make sure there is always someone you can turn to if you are worried about anything.

If you are feeling upset or unsafe, are worried about a friend, student or family member, or you feel like something isn't right, speak to our safeguarding team:



Ian Wyles Designated Safeguarding Lead



Simone Botes

Nurhaan Snyman



Rafiq Manan



Ronald Munodawafa



Charlotte Witcher



Scan to report a safeguarding concern



or email the Designated Safeguarding Lead: Ian Wyles safeguarding@hyperiondev.com





Learning Outcomes

- Explain the process of reading and writing files in Python.
- Apply for loops, list manipulation, and file operations in Python to solve problems that are similar to the walkthrough examples.
- Transfer your learnings to complete the tasks by the end of the session.



IO Operations

- File Operations:
 - O **Reading files**: Opening files with open() in read mode ('r').
 - O Writing files: Using open() in write mode ('w').
 - O **Context Managers**: Explain the use of with to manage file streams.
- Common String Operations:
 - O **Splitting** strings to separate data.
 - O **Stripping** whitespace to clean input.
 - O **Looping** through files line by line.
- Practical Use Cases: Storing data in lists and writing formatted output.



Task Walkthrough: Auto-graded Task 1



Auto-graded task 1

- Create a new Python file in the folder for this task, and call it dob_task.py.
- In your Python file, write a program that reads the data from the text file provided (**DOB.txt**) and prints it out in two different sections: one for names and another for birthdates, as shown in the format displayed below:

Name

Orville Wright Rogelio Holloway Marjorie Figueroa ... etc.

Birthdate

21 July 1988 13 September 1988 9 October 1988 ... etc. Orville Wright 21 July 1988 Rogelio Holloway 13 September 1988 Marjorie Figueroa 9 October 1988 Debra Garner 7 February 1988 Tiffany Peters 25 July 1988 Hugh Foster 2 June 1988 Darren Christensen 21 January 1988 Shelia Harrison 28 July 1988 Ignacio James 12 September 1988 Jerry Keller 30 February 1988 Frankie Cobb 1 July 1988 Clayton Thomas 10 December 1988 Laura Reyes 9 November 1988 Danny Jensen 19 September 1988 Sabrina Garcia 20 October 1988 Winifred Wood 27 July 1988 Juan Kennedy 4 March 1988 Nina Beck 7 May 1988 Tanya Marshall 22 May 1988 Kelly Gardner 16 August 1988 Cristina Ortega 13 January 1988 Guy Carr 21 June 1988 Geneva Martinez 5 September 1988 Ricardo Howell 23 December 1988 Bernadette Rios 19 July 1988









Auto-graded task 2

Follow these steps:

- Create a file called **student_register.py**.
- Write a program that allows a user to register students for an exam venue.
- First, ask the user how many students are registering.
- Create a for loop that runs for that number of students.
- Each time the loop runs the program should ask the user to enter the next student ID number.
- Write each of the ID numbers to a text file called reg_form.txt.
- Include a dotted line after each student ID because this document will be used as an attendance register, which the students will sign when they arrive at the exam venue.



Questions and Answers





Thank you for attending







