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.







Task Walkthrough 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>



Task Walkthrough 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

- Apply practical string manipulation techniques such as modifying characters in a string.
- Implement dictionaries and lists together to perform calculations such as calculating expected profits.
- Explain the reasoning behind each code block and apply the logic to similar tasks.



Strings, Lists and Dictionaries

- Strings are sequences of characters that are enclosed within single or double quotes.

 Common operations we perform on strings are concatenation, slicing, and formatting.
- Lists are mutable, ordered collections of items which can be of any type. Lists allow for indexing, slicing, appending, and more.
- Dictionaries are collections of key-value pairs, where each key maps to a value.

 Dictionaries are unordered and are accessed using keys, not indices.
- There are lots of **useful methods** we can use on strings, lists and dictionaries, such as:
 - O String Methods: split(), join(), replace()
 - O List Methods: append(), pop(), sort()
 - O Dictionary Methods: get(), keys(), values()



Task Walkthrough: Auto-graded Task 1



Follow these steps:

- Create a file called alternative.py.
- Write a program that reads in a string and makes each alternate **character** into an uppercase character and each other alternate character a lowercase character.
 - E.g.: The string "Hello World" would become "Hello World"
- Now, try starting with the same string but making each alternative word lowercase and uppercase.
 - E.g.: The string "I am learning to code" would become "i AM learning TO code".
 - Tip: Using the split() and join() functions will help.
- Be sure to place files for submission inside your **task folder** and click "**Request review**" on your dashboard.









Follow these steps:

- Imagine you are running a café. Create a new Python file in your folder called cafe.py.
- Create a list called menu, which should contain at least four items sold in the café.
- Next, create a dictionary called **stock**, which should contain the stock value for each item on your menu.
- Create another dictionary called price, which should contain the prices for each item on your menu.
- Next, calculate the worth of the **total_stock** in the café. You will need to remember to loop through the appropriate dictionaries and lists to do this.

Tip: When you loop through the menu list, the "items" can be set as keys to access the corresponding "stock" and "price" values. Each **item_value** is calculated by multiplying the stock value by the price value. For example:

item_value = (stock[item] * price[item])

Finally, print out the result of your calculation.



Questions and Answers





Thank you for attending







