



# 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.



**SKILLS  
FOR LIFE**

**SKILLS BOOTCAMPS**



Department  
for Education

# CoGrammar

## Task Walkthrough: Iteration

September 2024

# Software Engineering Session Housekeeping

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- 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: [Questions](#)

## Software Engineering Session Housekeeping cont.

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- For all **non-academic questions**, please submit a query:  
[www.hyperiondev.com/support](http://www.hyperiondev.com/support)
- Report a **safeguarding** incident:  
[www.hyperiondev.com/safeguardreporting](http://www.hyperiondev.com/safeguardreporting)
- We would love your **feedback** on lectures: [Feedback on Lectures](#)



# Skills Bootcamp Progression Overview

To be eligible for a certificate of completion, students must fulfil three specific criteria. These criteria ensure a high standard of achievement and alignment with the requirements for the successful completion of a Skills Bootcamp.

## ✓ **Criterion 1 - Meeting Initial Requirements**

**Criterion 1 involves specific achievements within the first two weeks of the program. To meet this criterion, students need to:**

- Attend a minimum of 7-8 hours per week of guided learning (lectures, workshops, or mentor calls) within the initial two-week period, for a total minimum of **15 guided learning hours** (GLH), by no later than **15 September 2024**.
- Successfully complete the Initial Assessment by the end of the first 14 days, by no later than **15 September 2024**.



# Skills Bootcamp Progression Overview

## ✓ Criterion 2 - Demonstrating Mid-Course Progress

Criterion 2 involves demonstrating meaningful progress through the successful completion of tasks **within the first half** of the bootcamp.

To meet this criterion, students should:

- Complete **42 guided learning hours** and the first half of the assigned tasks by the end of week 7, no later than **20 October 2024**.

# Skills Bootcamp Progression Overview

## ✓ Criterion 3 - Demonstrating Post-Course Progress

**Criterion 3** involves showcasing students' **progress after completing the course**.  
To meet this criterion, students should:

- Complete all mandatory tasks before the bootcamp's end date. This includes any necessary resubmissions, no later than **22 December 2024**.
- Achieve at least 84 guided learning hours by the end of the bootcamp, **22 December 2024**.



## Advised Resources

- ❖ HyperionDev PDF notes
- ❖ Lecture: Iteration and GitHub (04 September 2024 & Repeat on 08 September)
- ❖ Example code files
- ❖ Task walkthrough lecture
- ❖ Research (Optional)



# Iteration

- ❖ **Iteration** refers to the process of executing a set of instructions repeatedly.
- ❖ **For loops** and **while loops** are commonly used to handle repetitive tasks in Python.
- ❖ **Condition-based iteration** allows the loop to continue or stop based on a condition (e.g., user input or reaching a specific value)

# Task 1 Walkthrough



# Auto-graded task 1

Follow these steps:

- Create a file called **while.py**.
- Write a program that continually asks the user to enter a number.
- When the user enters “-1”, the program should stop requesting the user to enter a number. Please be aware that **0** is not a valid input.
  - Hint: think about how you might **exit** the loop if **-1** is entered.
- The program must then calculate the average of the **valid** numbers entered, excluding the **-1** and **0**.
- Use a while loop to achieve the continuous prompting and number collection.

Be sure to place files for submission inside your task folder and click "Request review" on your dashboard.

## Task 2 Walkthrough



# Auto-graded task 2

Follow these steps:

- Create a new Python file in this folder called **pattern.py**.
- Write code to output the arrow pattern shown below, using an *if-else statement* in combination with a *for loop*
  - You are **allowed** to use more than one for loop. But use only one for loop if you wish to challenge yourself):

```
*
**
***
****
*****
*****
****
***
**
*
```

Be sure to place files for submission inside your task folder and click "Request review" on your dashboard.



# Questions and Answers



# Thank you for attending



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