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# Week 5 - Tutorial Session I

SKILLS FOR LIFE
SKILLS BOOTCAMPS

Department for Education

# Software Engineering Lecture Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly. **(FBV: Mutual Respect.)**
- 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 Open Classes. You can submit these questions here: **Open Class Questions**

# **Software Engineering Lecture 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: **Feedback on Lectures**

# Progression Criteria

### ✅ Criterion 1: Initial Requirements

- Complete 15 hours of Guided Learning Hours and the first four tasks within two weeks.

### ✅ Criterion 2: Mid-Course Progress

- Software Engineering: Finish 14 tasks by week 8.
- Data Science: Finish 13 tasks by week 8.

### ✅ Criterion 3: Post-Course Progress

- Complete all mandatory tasks by 24th March 2024.
- Record an Invitation to Interview within 4 weeks of course completion, or by 30th March 2024.
- Achieve 112 GLH by 24th March 2024.

### ✅ Criterion 4: Employability

- Record a Final Job Outcome within 12 weeks of graduation, or by 23rd September 2024.

# Lecture Objectives

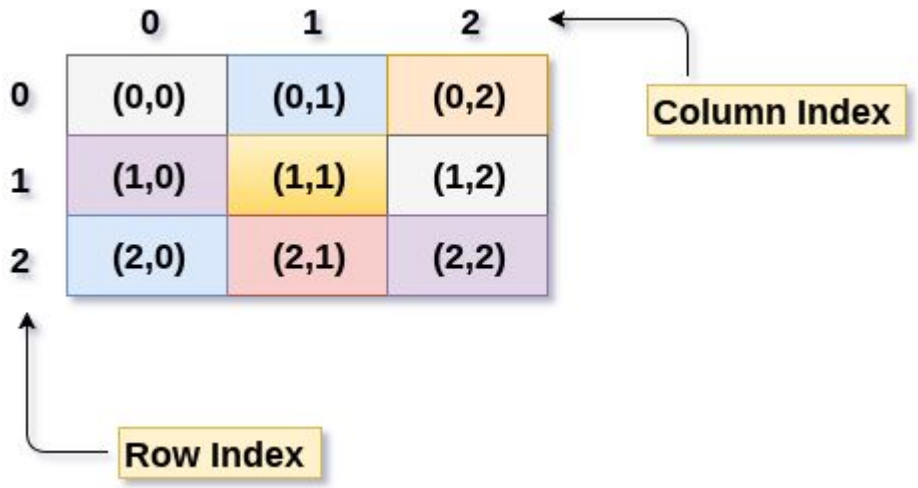
1. VsCode Extension Walkthrough
2. Github Repo & Code practice websites.
3. Application of 2D lists to traverse and manipulate elements. (MineSweeper)

# Question:

**What is a 2D list, and how does it differ from a 1D list?**

# Traversing

- ★ Nested Loops (iterate through rows and columns)
- ★ List comprehension



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Questions and Answers

# Wrapping Up

## 2D Lists

2D lists in Python offer a powerful mechanism for organising and manipulating data in a structured manner.

## Rows and Columns

Rows represent individual lists within the main list, while columns denote elements within each of these lists.

## Traversal

Whether it's accessing specific elements, performing operations on the entire list, or searching for particular values, traversing techniques are central to unleashing the full potential of 2D lists.

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## Thank you for joining