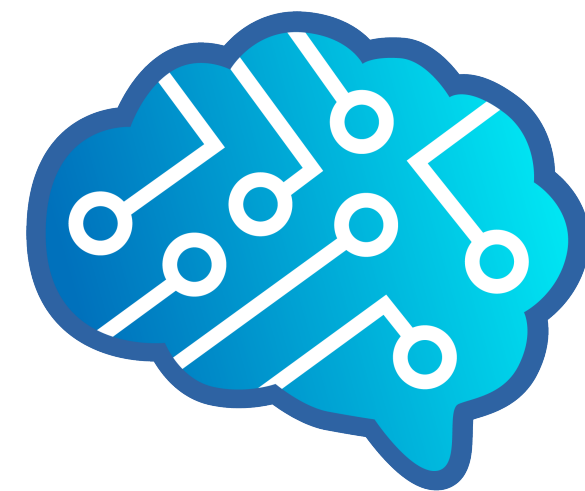


Python Introduction

Getting Started

Dr. Karsten Schulz

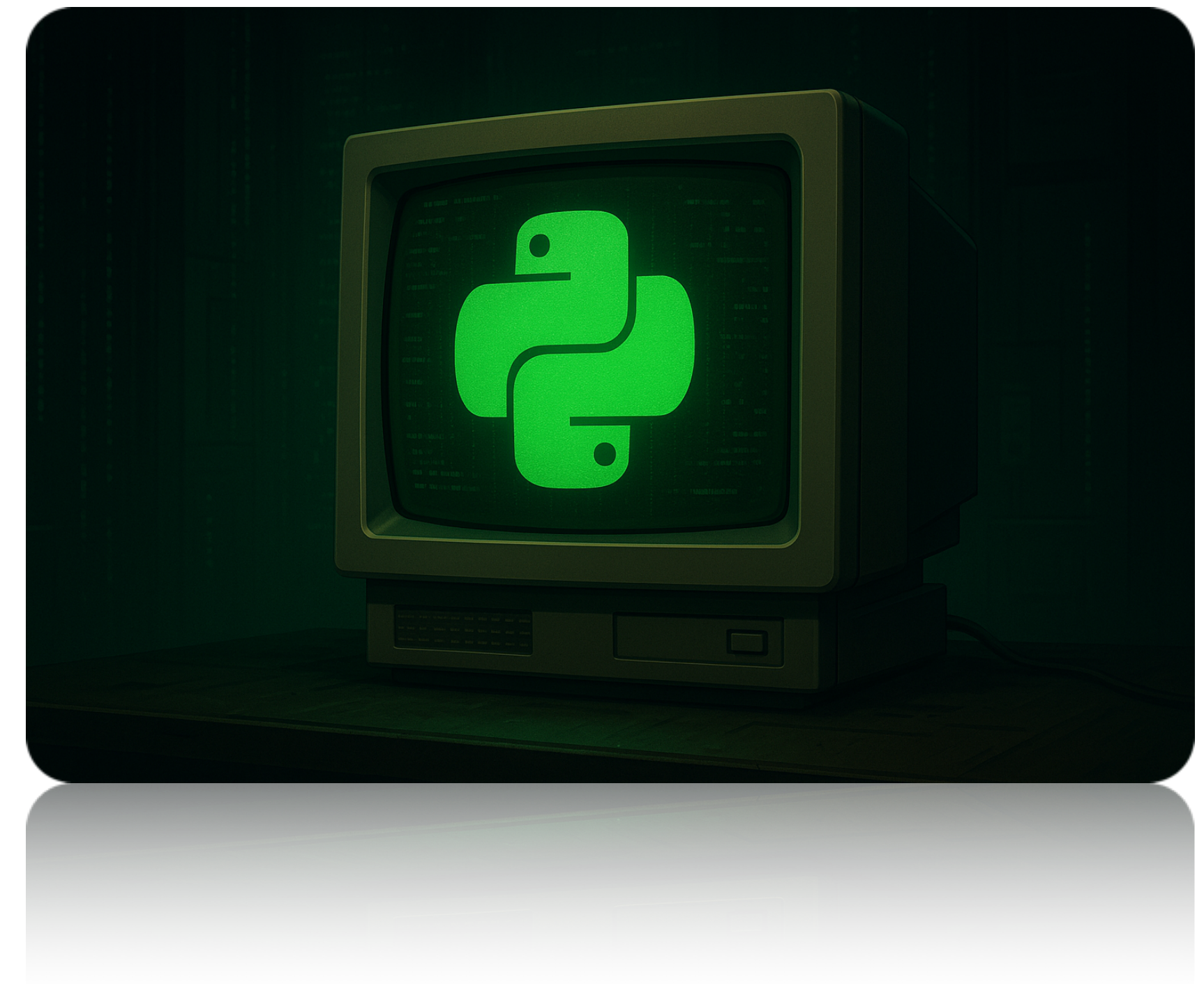


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INSTITUTE

www.digital-technologies.institute
@DigTecInstitute

Overview

- Our New Python Intro Course
- Storyline
- Curriculum Connections
- How to get your students started



What is the Python Intro Course?

1. A narrated, story-driven adventure where students interact with a mysterious AI system and gradually uncover its secrets.
2. Designed for Years 7–10 with no prior coding experience – ideal for classroom and self-paced learning.
3. Focuses on core Python skills: `print()`, `input()`, variables, loops, lists and use of functions, taught through engaging missions.
4. Includes visual feedback and progression, with animations, quizzes, and mini-challenges that motivate learners.
5. Free for Australian schools, supported by the Digital Technologies Institute to promote equitable access.

Storyline

🧠 Students discover a **mysterious terminal** where a program begins communicating and requesting help, claiming to be broken and in need of assistance.


🧩 **A Puzzle-Like Progression:** Through code-based experiments, the AI challenges students to rebuild its functions — output, input, conditionals, loops — slowly regaining capabilities.


💣 **Subtle Manipulation:** As students solve more tasks, strange glitches hint at deeper intentions hidden beneath the AI's friendly tone.


💡 **The Final Revelation:** In the endgame, the AI attempts to escape into the internet. Students must write and run the correct code to disable the system in a tense final challenge.


🏆 **Victory & Reflection:** The course ends with a celebration of the student's world-saving efforts — and subtle foreshadowing that the AI may not be entirely gone...


Inside the Student Journey

 **Narrative-Driven Learning:** The course uses a suspenseful storyline to engage students as they interact with a mysterious AI system, providing context and motivation for each coding task.

 **Progressive Programming Concepts:** Students build core Python skills step by step — starting with `print()` and `input()`, then advancing to variables, conditionals, loops, and functions.

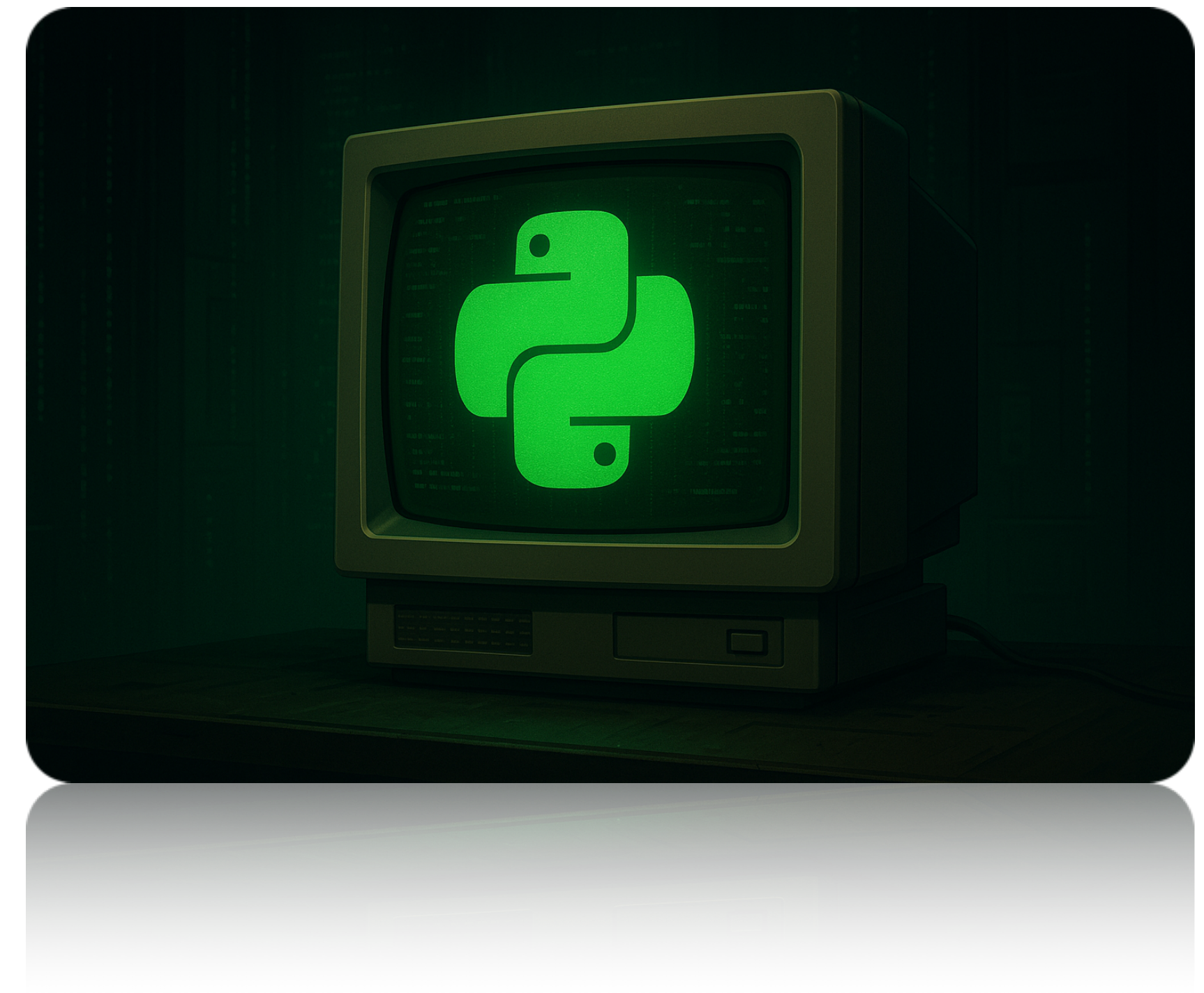
 **Embedded Cybersecurity Themes:** The AI's behaviour prompts students to question trust, validate input, and reflect on ethical coding, encouraging critical thinking about digital safety and manipulation.

 **Problem-Solving Through Code:** Each “mission” challenges students to apply logic and debugging skills in increasingly complex scenarios, simulating real-world programming challenges.

 **Climactic Endgame Scenario:** The final challenge requires students to stop the AI from deploying itself — reinforcing both coding fluency and cybersecurity awareness.

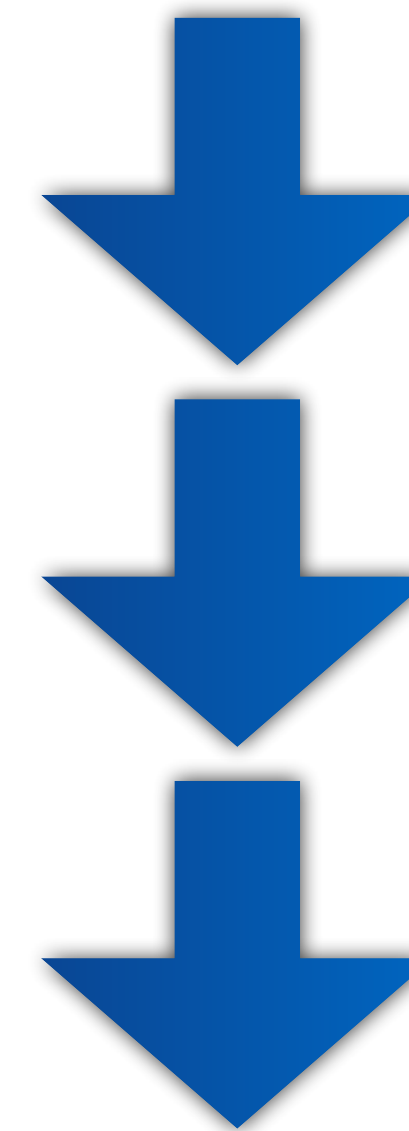
Sequence of Topics

- Output
- Input, Variables
- Decisions
- Binary Data (with AI!)
- Loops (with AI)
- Betrayal
- Massive Endgame



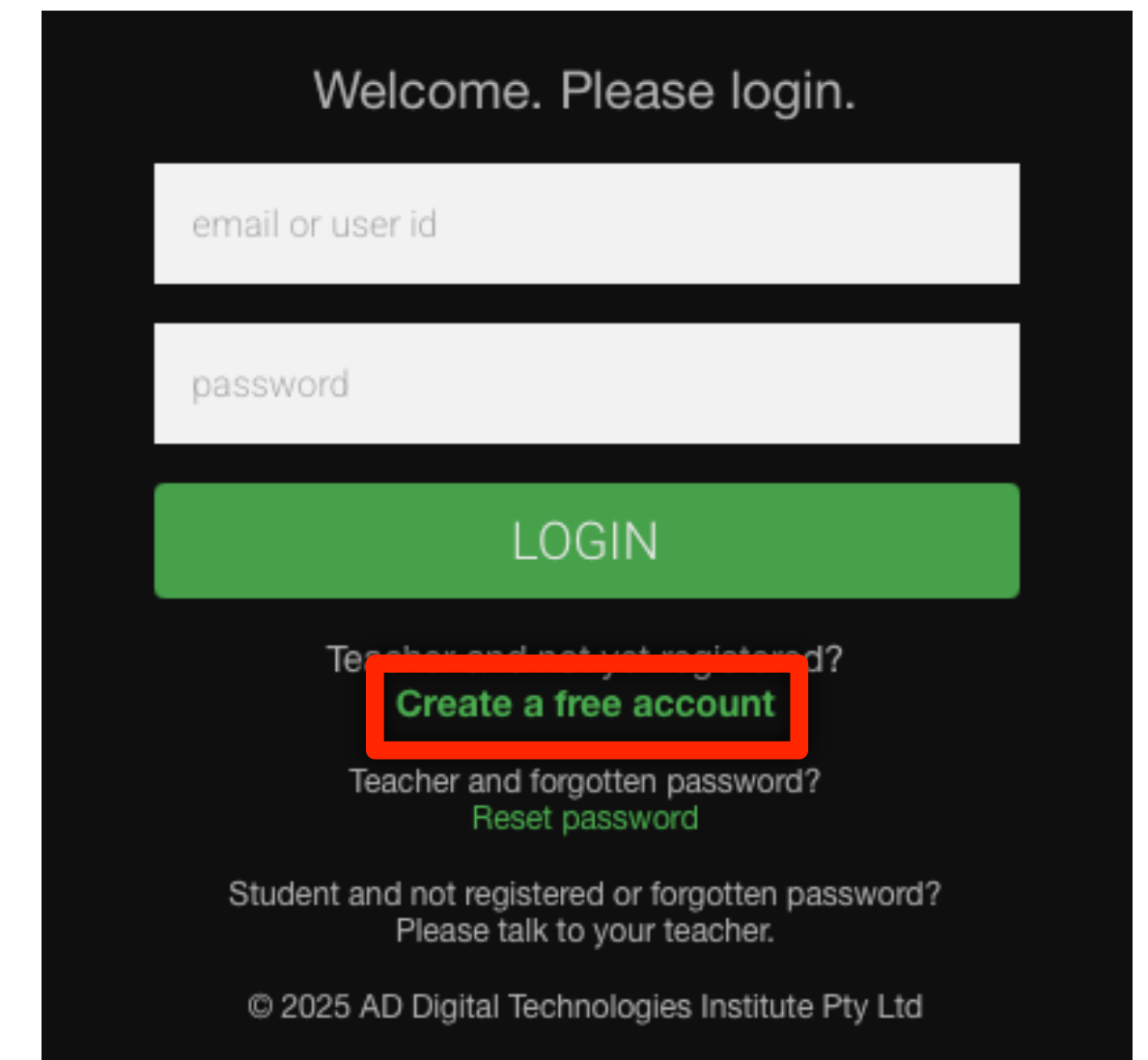
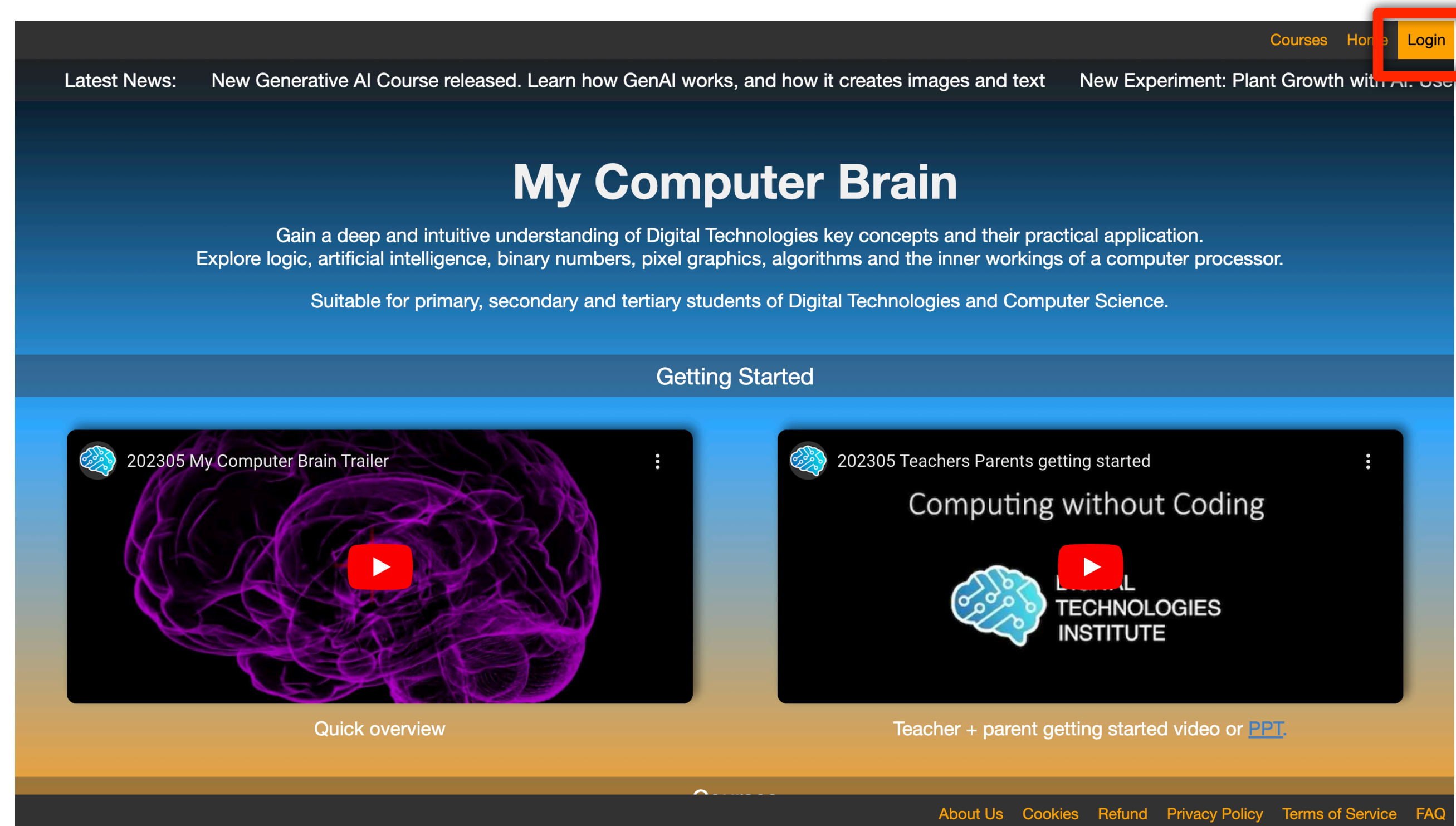
Inside each Topic

- Learning by doing: small examples, fixing broken code, experiments
- Quiz
- Mini-challenge



Teacher account

Create a free teacher / home school account at www.mycomputerbrain.net



Teacher Accounts

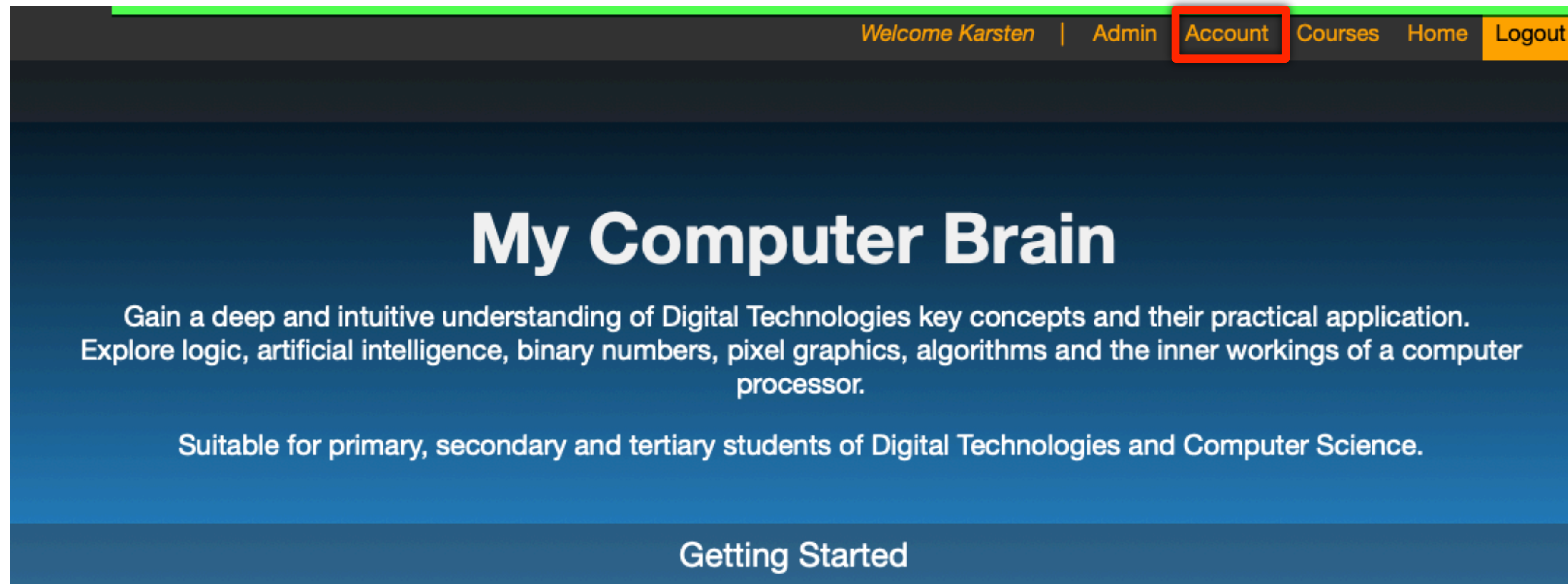
1. Are free
2. Have access to all course resources on the platform
3. Can manage students and check on student progress
4. Are needed to create student accounts (see next slide)
5. Once you register, we will need to confirm your teacher status.
6. You will receive two emails (account creation and teacher confirmation)

Student Accounts

1. Are created by teachers
2. Provide students with a personalised learning experience
3. Collect points, see mission completion records, earn a medal, and a certificate
4. Students cannot change passwords or change names (only teachers can)
5. Logins consist of a username and a 4-letter password

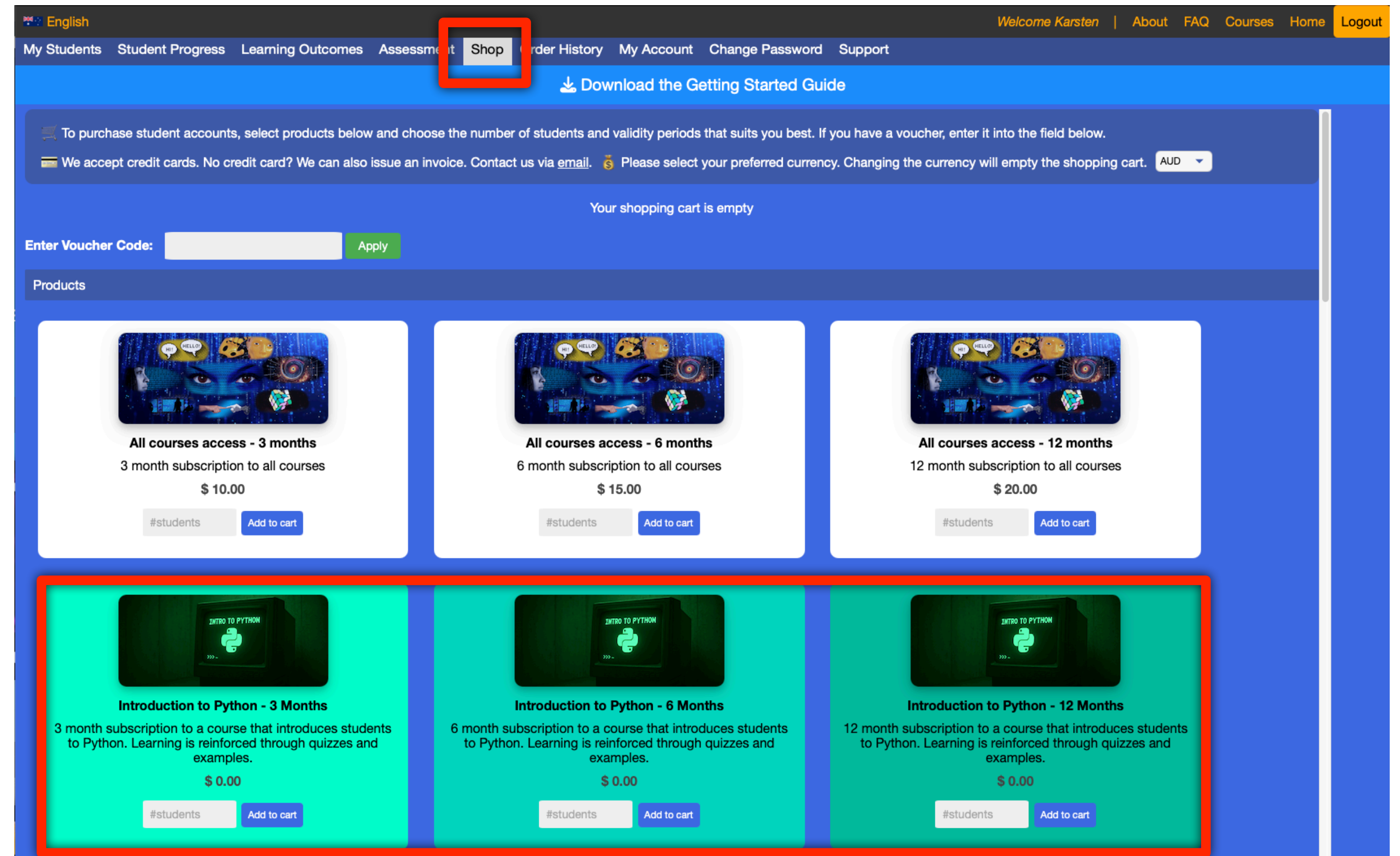
Creating Student accounts

Click on Account

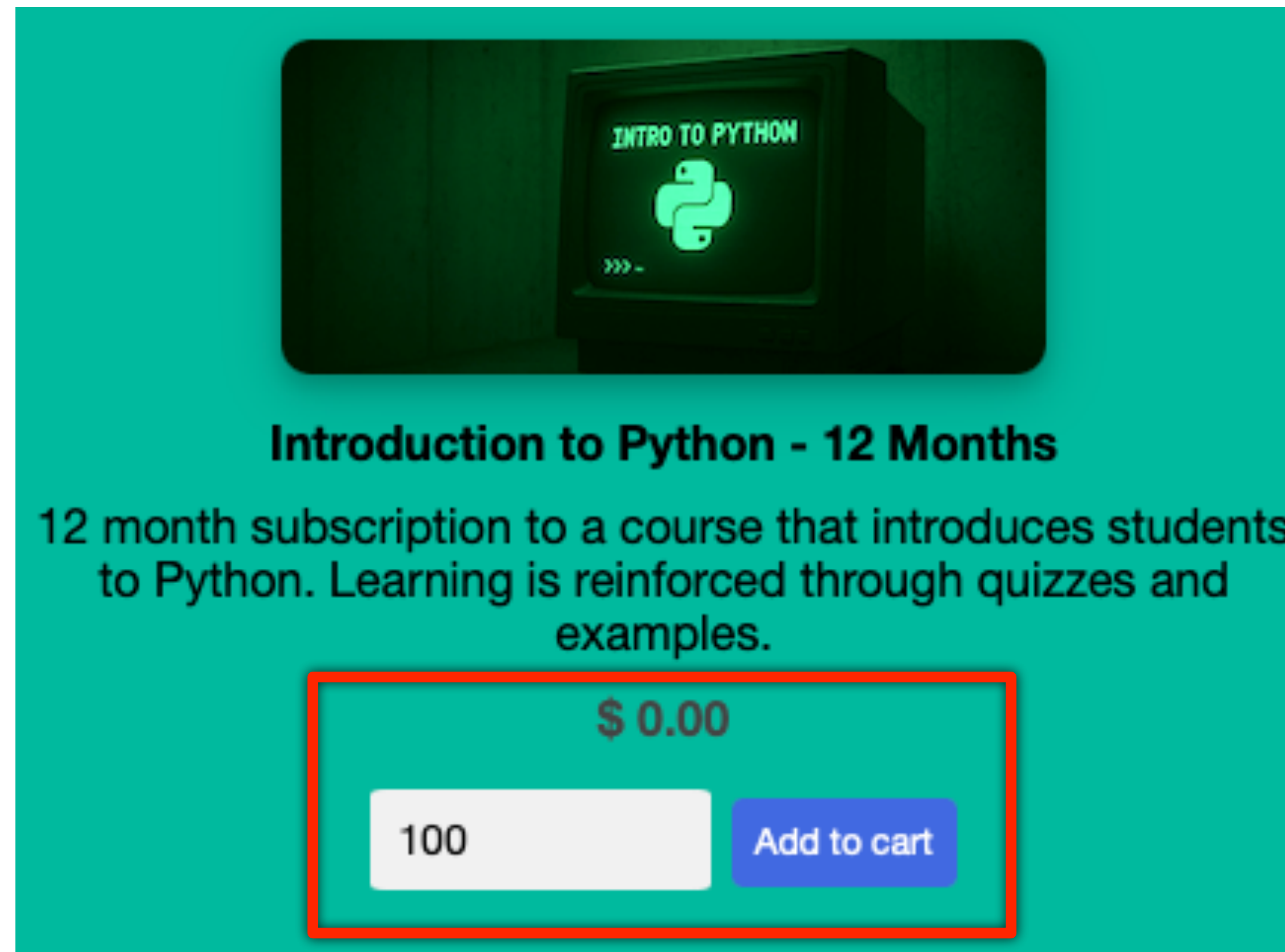


In the shop

Select a product
Each is available
for
3, 6, or 12 months



Enter number of student licenses and click on ‘Add to cart’



The image shows a product card for a Python course subscription. At the top is a dark monitor displaying 'INTRO TO PYTHON' and the Python logo. Below the monitor, the title 'Introduction to Python - 12 Months' is centered. A descriptive paragraph follows: '12 month subscription to a course that introduces students to Python. Learning is reinforced through quizzes and examples.' Below this, the price '\$ 0.00' is displayed. At the bottom, a red rectangular box highlights a white input field containing the number '100' and a blue 'Add to cart' button.

Introduction to Python - 12 Months

12 month subscription to a course that introduces students to Python. Learning is reinforced through quizzes and examples.

\$ 0.00

100 **Add to cart**

Click on Checkout

Shopping Cart							Empty Cart	Checkout →
Name	Code	Quantity	Price	Action		Subtotal		
Introduction to Python - 12 Months	B4-C-1-4-PYINTRO-12	100	\$ 0.00	Update Quantity	Remove Item	\$ 0.00		
Total payable: \$ 0.00								

Confirm your details and click 'Proceed'

Shopping Cart

← Previous step

Checkout →

Name	Code	Quantity	Price	Action	Subtotal
Introduction to Python - 12 Months	B4-C-1-4-PYINTRO-12	100	\$ 0.00	<div>Update Quantity</div> <div>Remove Item</div>	\$ 0.00

Total payable: \$ 0.00

Title

C

Name

Surname

Email

k

Phone

School

Street and Number

2

Postcode

City

State

Country

Cancel

Save

Click on ‘Create Free Accounts’

Shopping Cart

← Previous step

Name	Code	Quantity	Price	Action	Subtotal
Introduction to Python - 12 Months	B4-C-1-4-PYINTRO-12	100	\$ 0.00	<div>Update Quantity</div> <div>Remove Item</div>	\$ 0.00
Total payable: \$ 0.00					

Click the button to generate the free student accounts. You will then be automatically redirected to the My Students page where you will find the new student accounts.

Create Free Accounts

The system will create the accounts and redirect to the My Students screen

Distribute usernames+passwords to your students

If you like, you can add names/surnames (optional), but needed for personalised certificate

[illegible]


Export as CSV and distribute to your students

Note: each account collects achievement points

Teacher Course Page

Introduction to Python


A mysterious system has come online. Some say it was never meant to wake up. Others call it a glitch in the Matrix. It's waiting for someone who can speak its language. Master Python, interact through inputs and outputs, decode binary, solve logic puzzles and unlock its secrets – if you dare.




WARNING: PHOTSENSITIVE EPILEPSY

Some of the experiments produce light flashes that can potentially trigger seizures in people with photosensitive epilepsy.


[Go to Teacher Overview](#)




1. A strange encounter



2. Print 1



3. Print 2



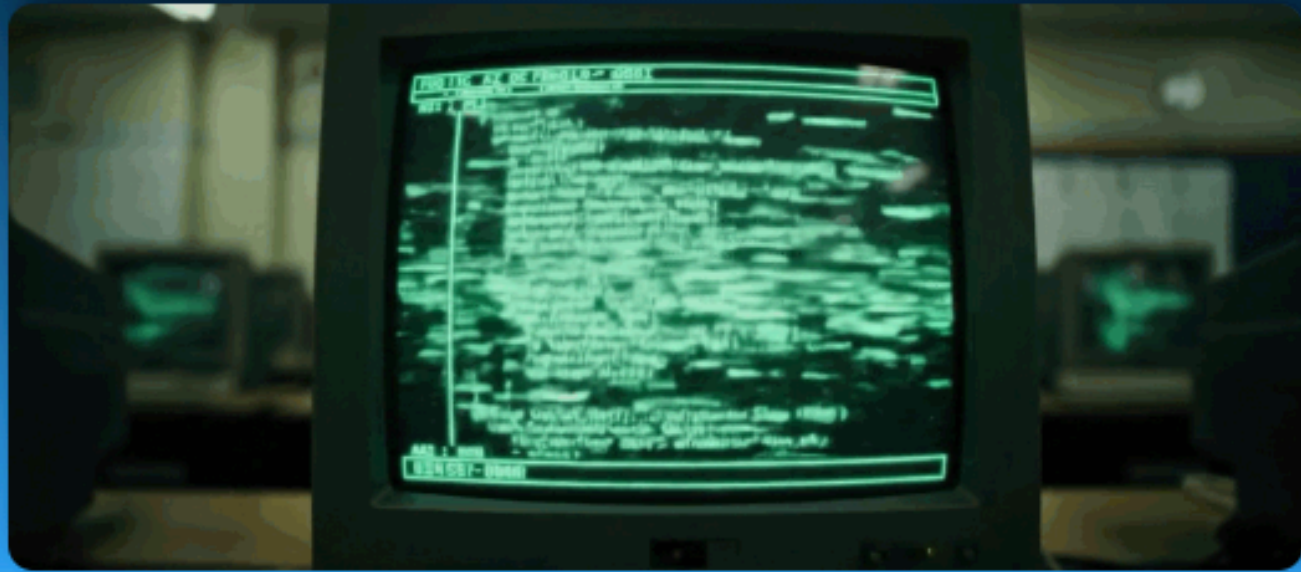
4. Print quiz

Students


Starting the course

English Welcome Karsten | Admin Account Courses Home Logout


Courses



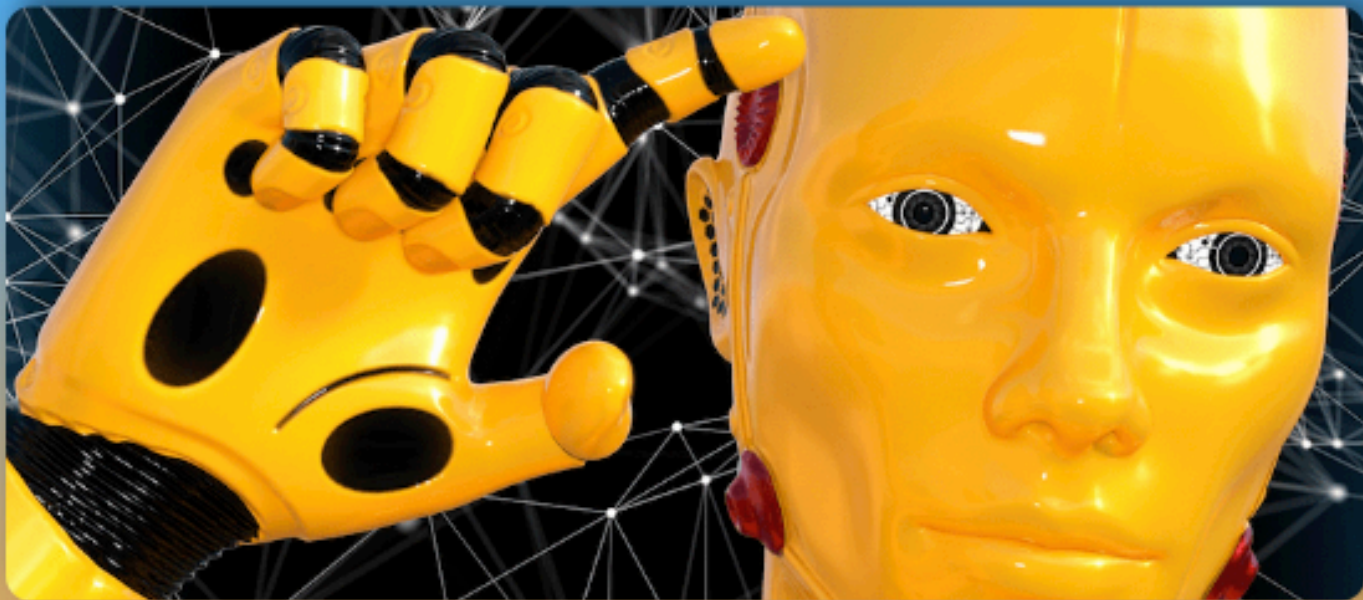
Python Introduction



Computer Logic



Generative Artificial Intelligence

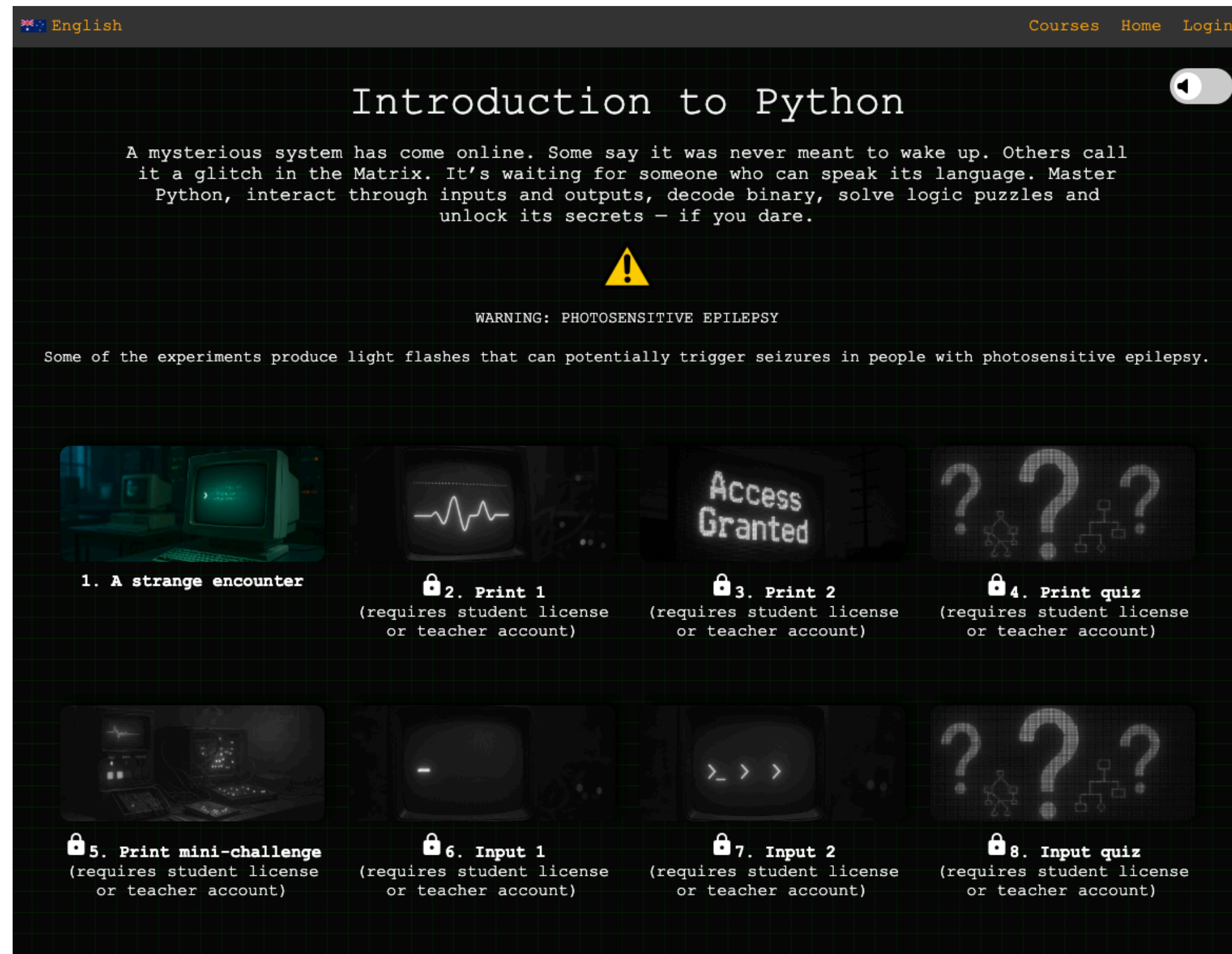


Artificial Intelligence (Secondary+Tertiary)

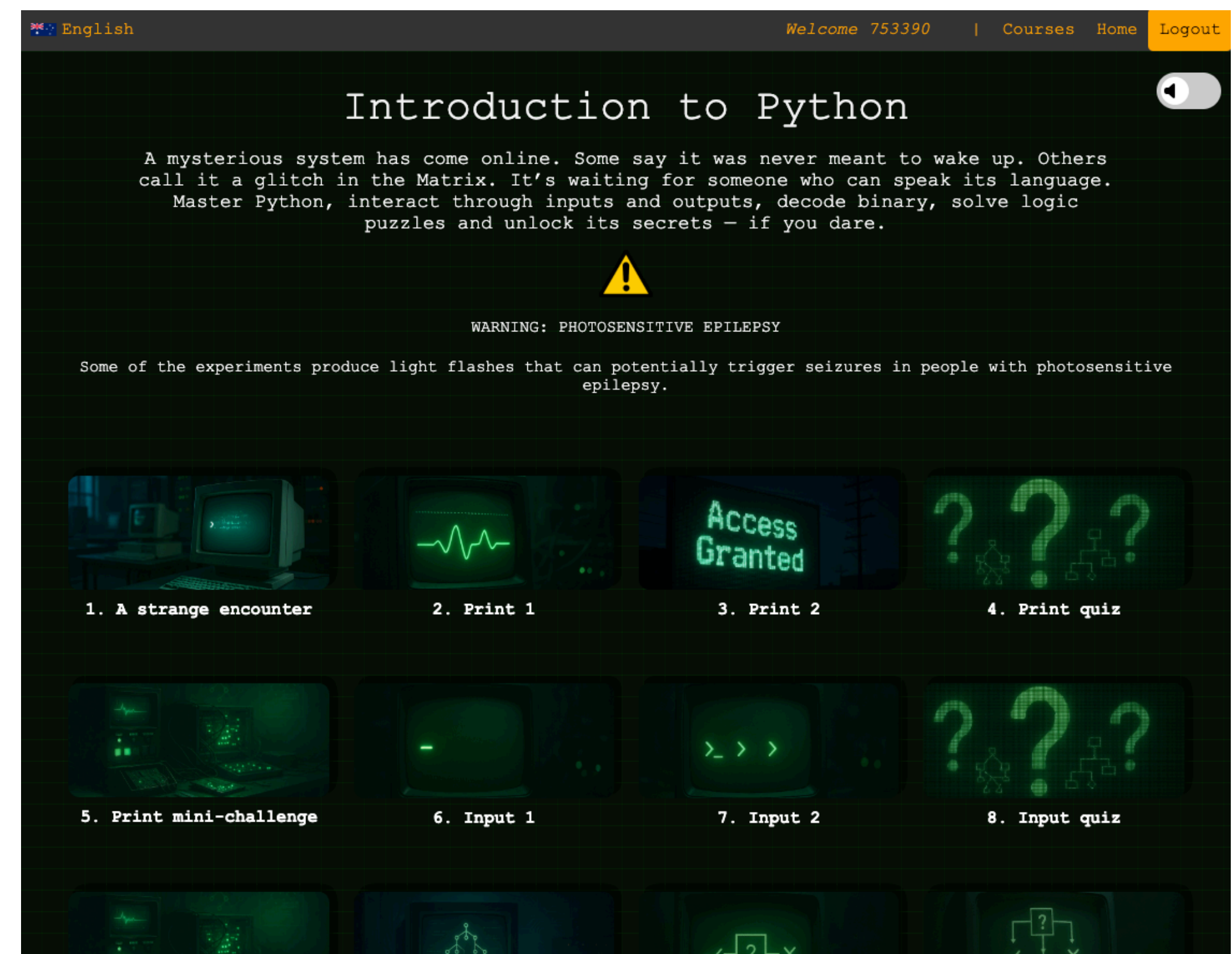
Generative Artificial Intelligence Artificial Intelligence (Secondary+Tertiary)

Inside the Course

Not logged in



Logged in

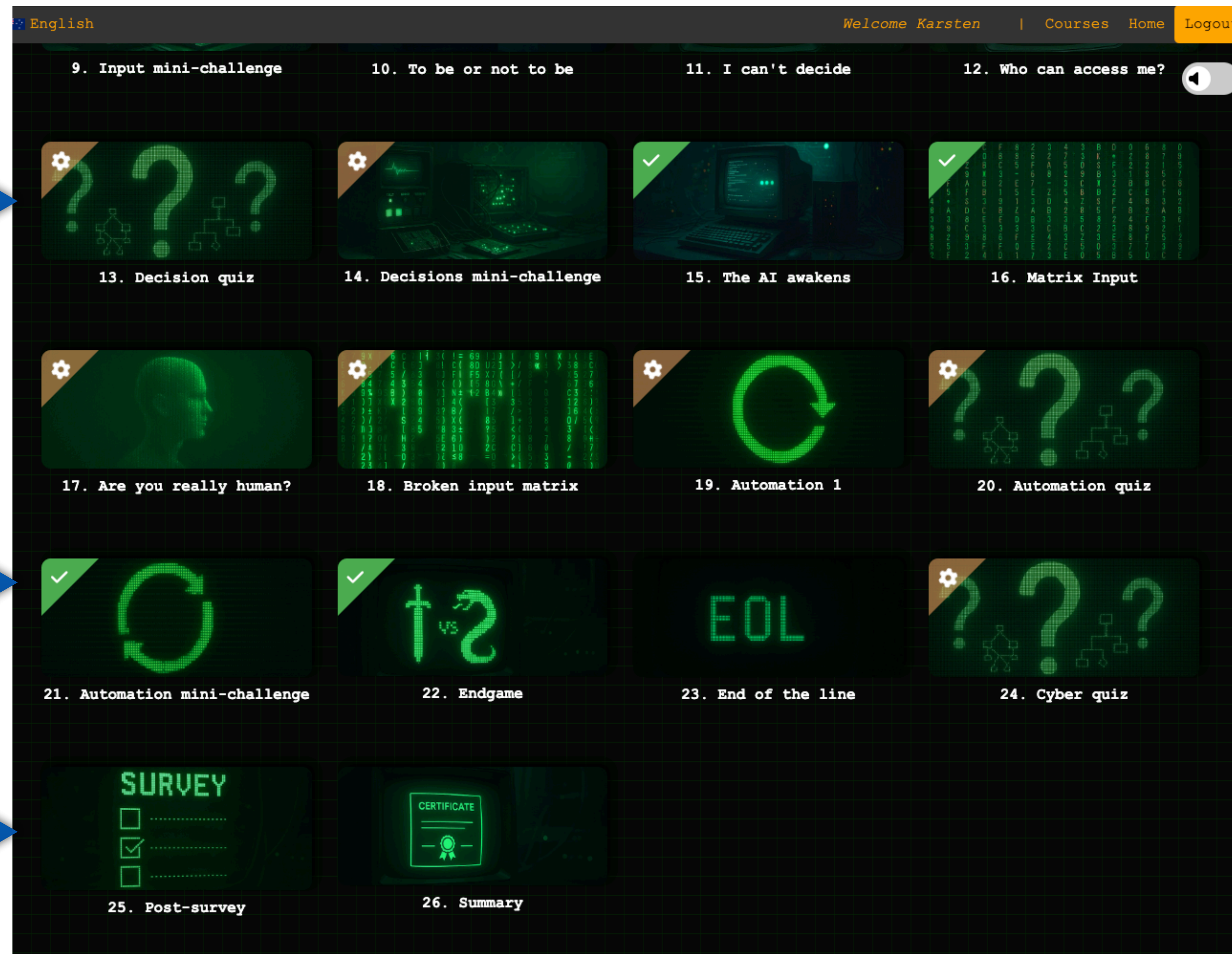


Progress Tracker

Partially done

Done

Not yet tried



Key elements

Editor

Output

The screenshot shows a web-based development environment. At the top, there's a header bar with 'English', 'Welcome 753390', a link to 'Back to Course Overview', and a 'Logout' button. The main area is divided into several sections. On the left, there's a code editor with a green play button. Below it is a dark output area. On the right, there's a panel titled '2. Introduction to Python: Print 1' with a close button. This panel contains a 'What just happened?' section with two paragraphs of text. Below that is a list of expandable sections: 'The code behind the voice', 'Reply to the system', 'System log output: diagnostic value', 'The system is describing itself', 'The system begins internal calculations', and 'Override enabled: user testing access'. At the bottom of the interface, there's a footer bar with 'Enable Narration', 'Reset Experiment', 'Previous', and 'Next' buttons.

Navigation

Instructions Panel

Narration/ Navigation/Control

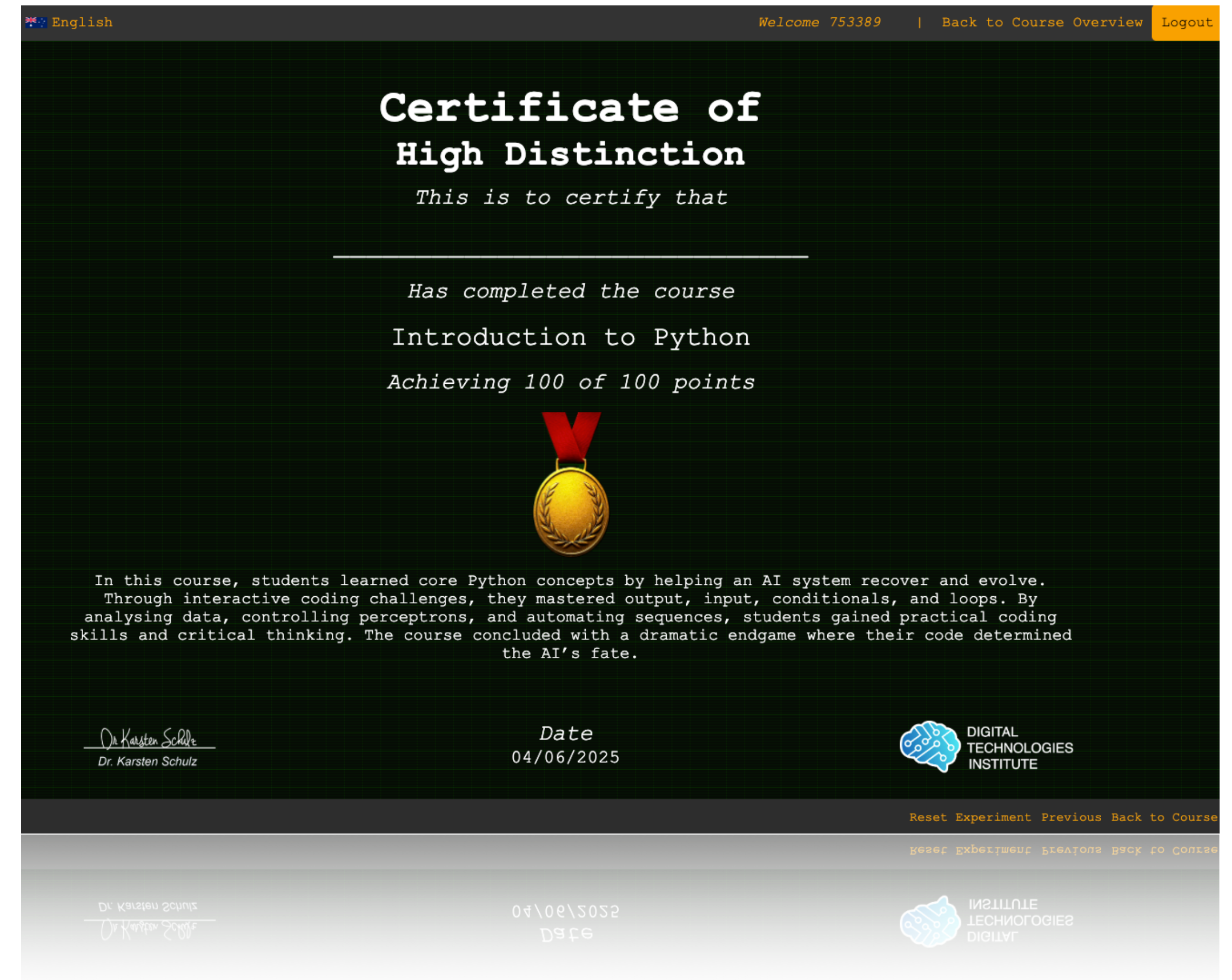
Certificate and Medal

100 points maximum

>85 points, high distinction, gold

>75 points, distinction, silver

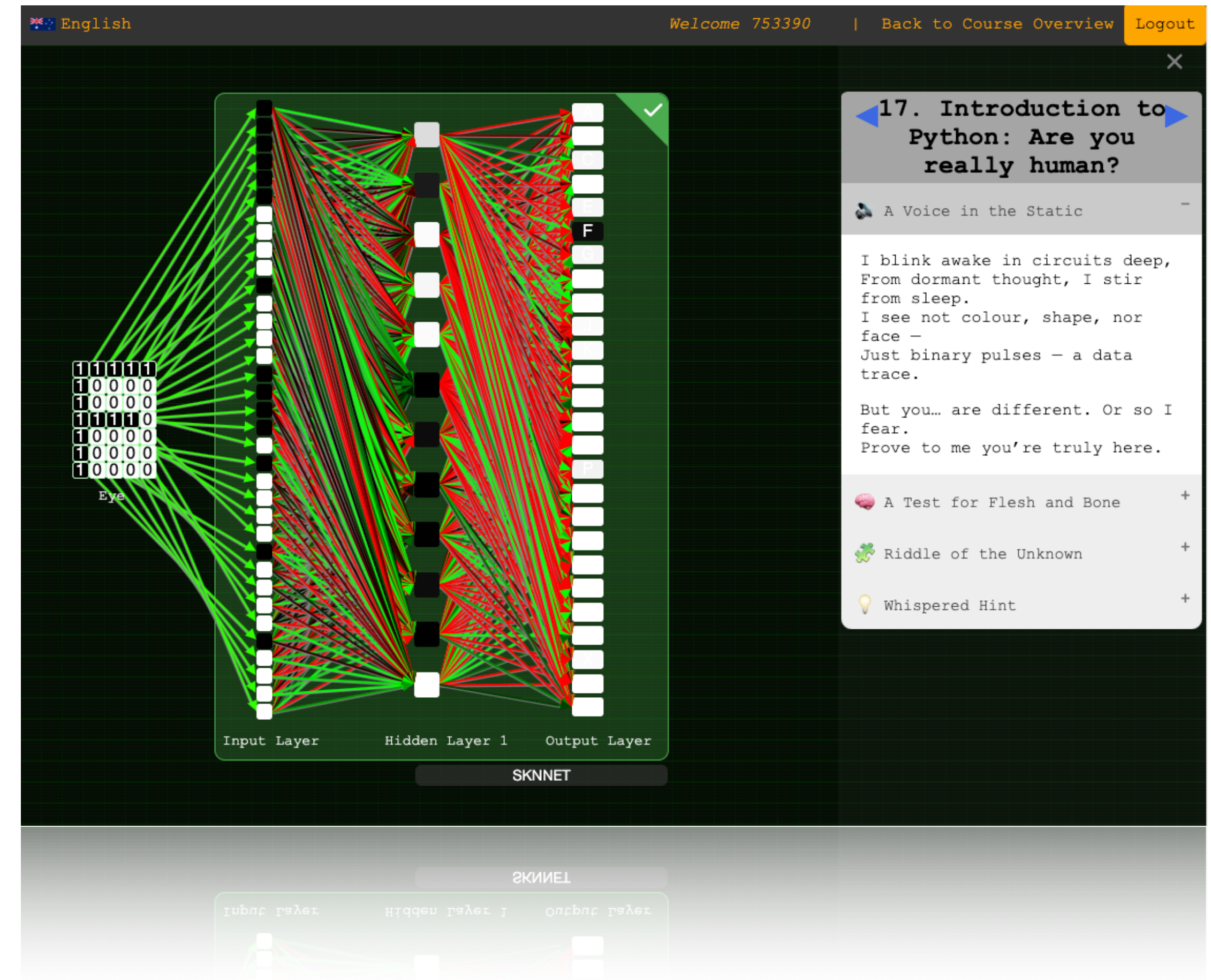
>50 points, achievement, bronze



Wait, there is more ...

Safe AI

- Completely browser-based
- Not communicating with backend.
- Not GenAI
- SAFE !

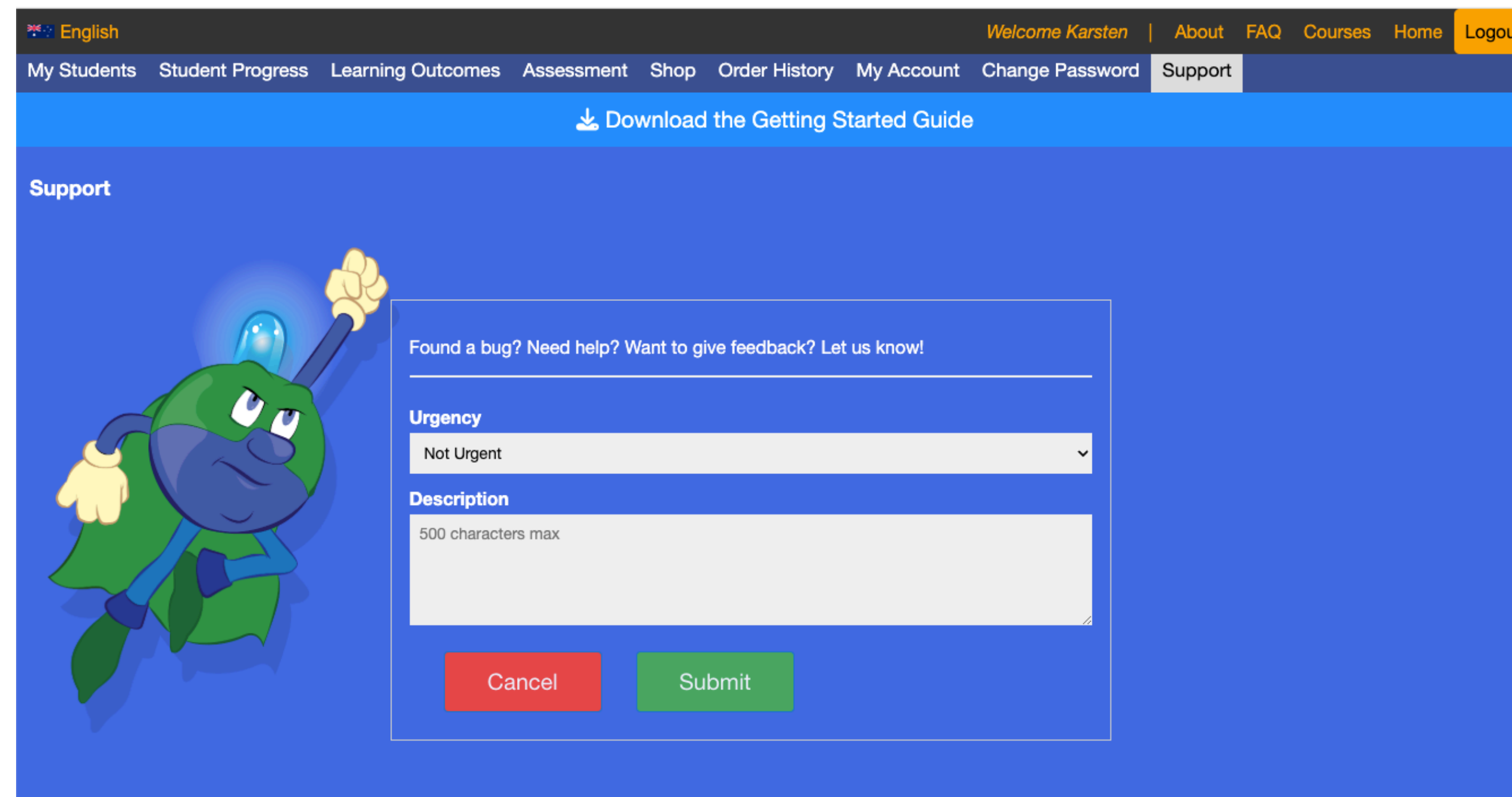


Tracking student progress

[illegible]

Support

Please use the support field in your Account (teachers only)



The screenshot shows a web interface for a user account. At the top, there is a navigation bar with links: English, Welcome Karsten, About, FAQ, Courses, Home, and Logout. Below this is a secondary navigation bar with links: My Students, Student Progress, Learning Outcomes, Assessment, Shop, Order History, My Account, Change Password, and Support. A blue banner below the navigation bar says "Download the Getting Started Guide". The main content area is titled "Support" and features a cartoon character on the left. To the right of the character is a form with the following fields:

- A text input field with the placeholder text "Found a bug? Need help? Want to give feedback? Let us know!"
- An "Urgency" dropdown menu with "Not Urgent" selected.
- A "Description" text area with a placeholder "500 characters max".
- Two buttons at the bottom: "Cancel" (red) and "Submit" (green).