Using peer assessment & self-reflection to teach statistical programming

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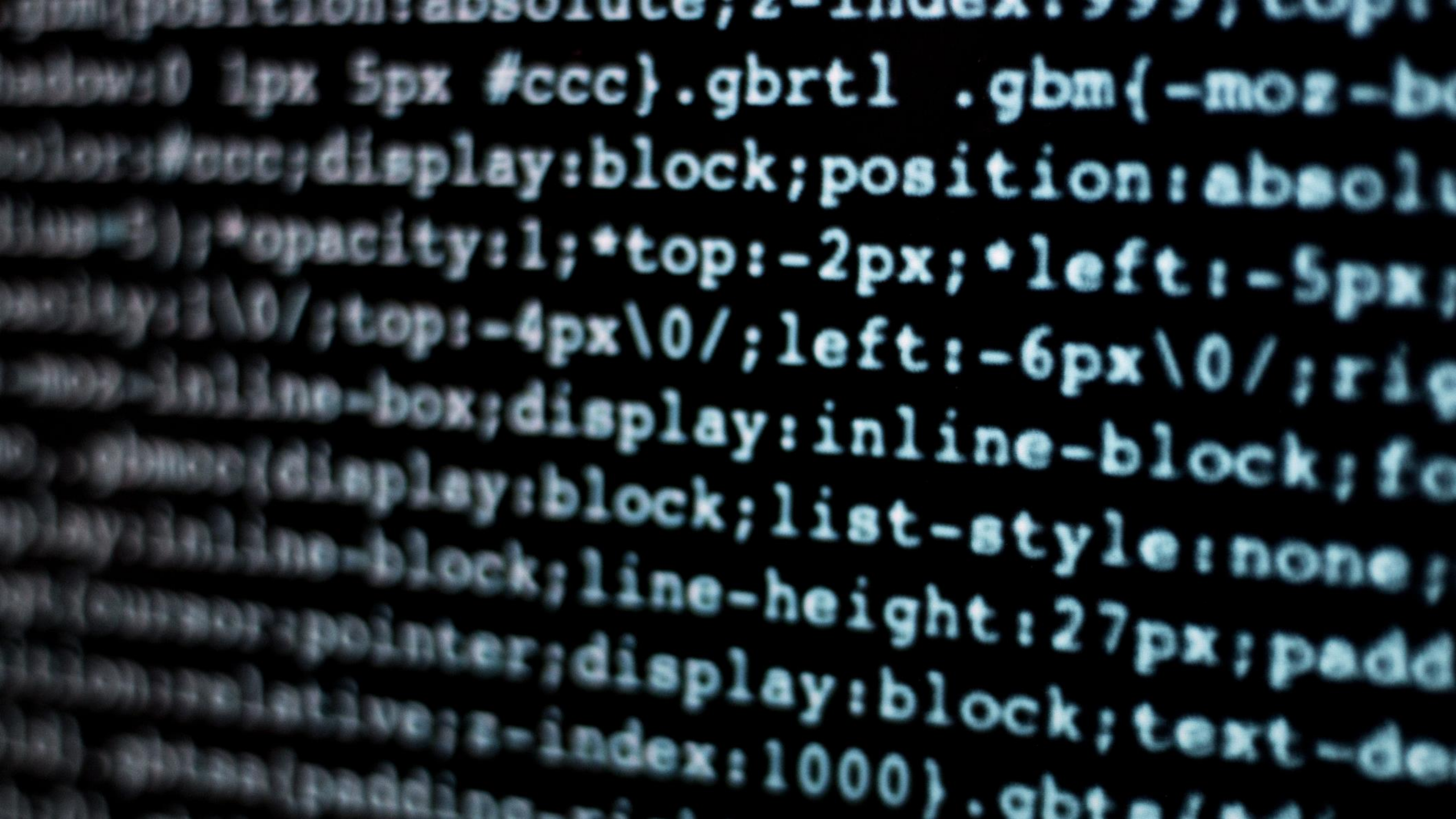
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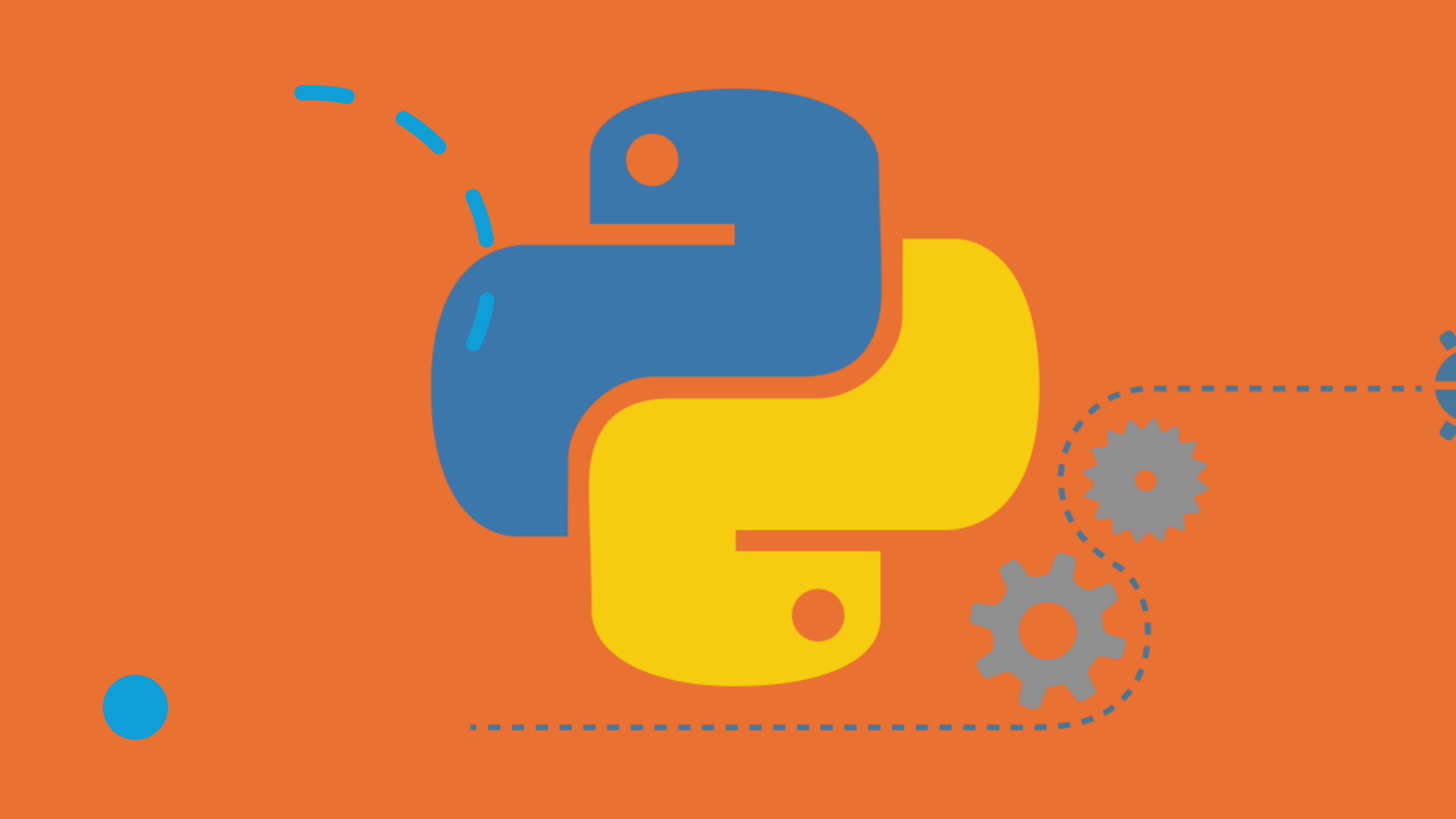
Data and Engineering for Health Research 2024-25

Module Code	DASC509
Org Unit	Health Data Science NEW
Credits	15
Level	Level 7
Version	1.0
Status	Approved

Educational Aims	This module aims to equip students with essential skills in data management and engineering, focusing on several fundamental tools in the field of health data science. • Develop proficiency in key programming languages including SQL, Python, R, and Git. • Enhance data visualisation skills to derive meaningful insights from complex datasets. • Ensure students can responsibly manage and utilise health data while adhering to version control and security standards.




3
10
16
17
23
24
30
31
7
14
21
28

SQL

SQL

Debug R for loop

SQL

Debug R for loop

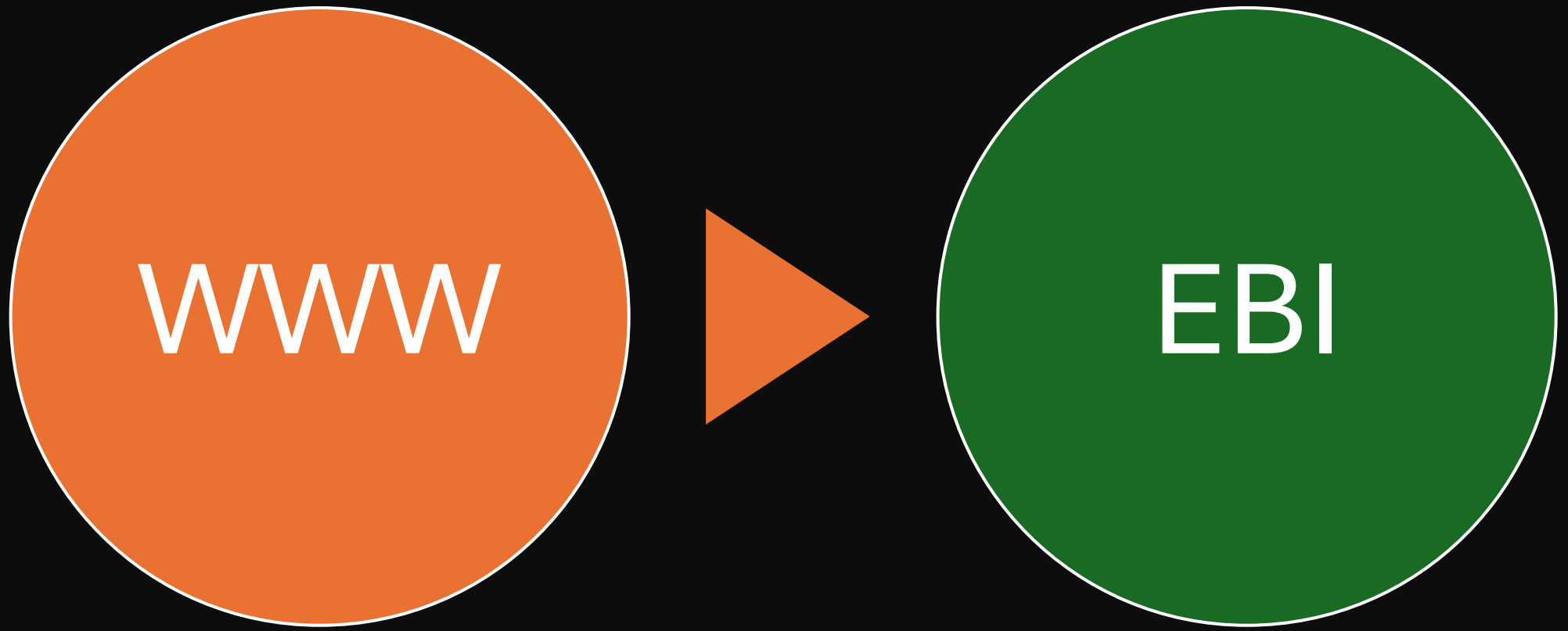
Table 1 in Python

SQL

Debug R for loop

Table 1 in Python

GitHub upload

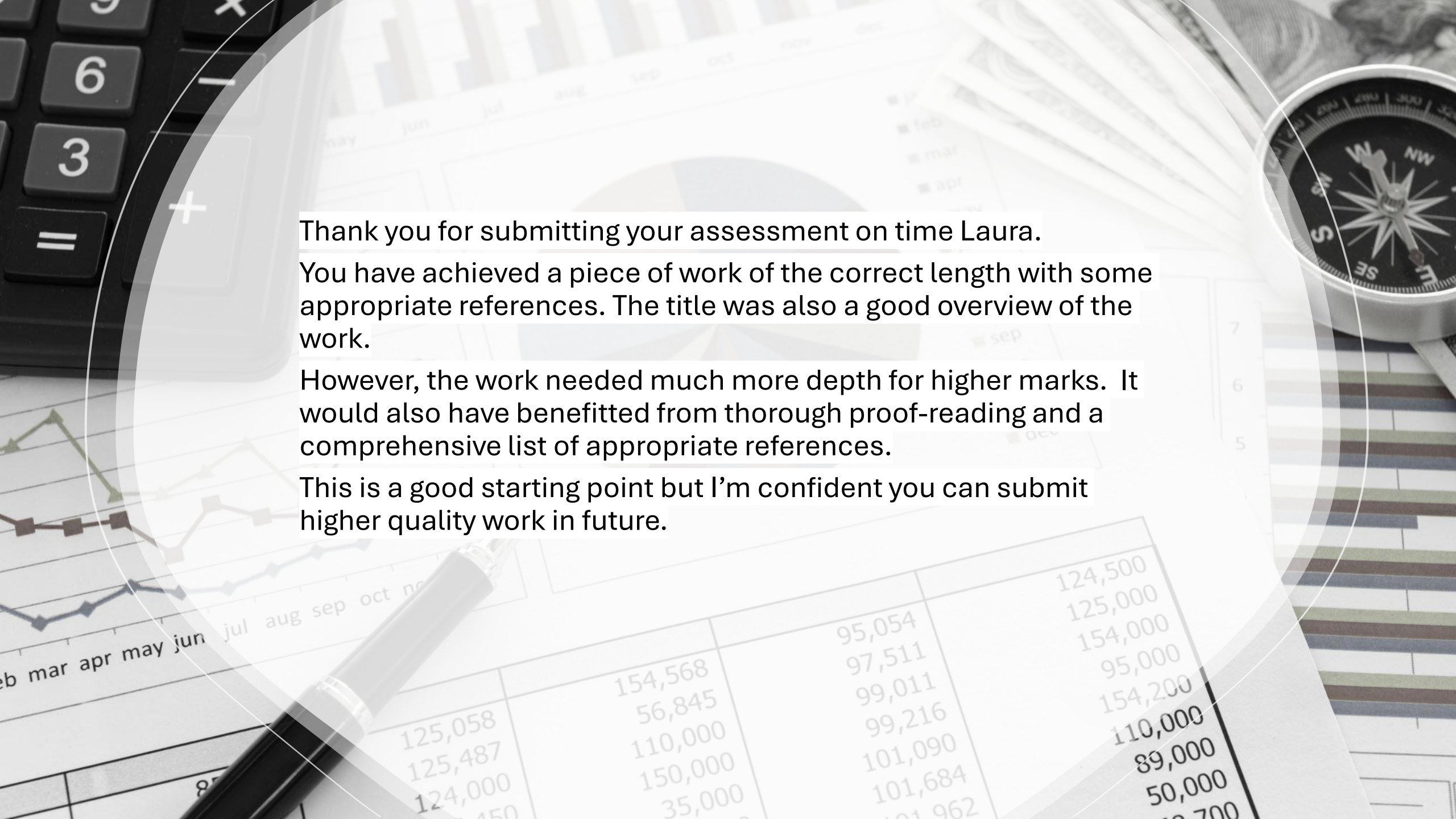

www
EBI

Well done for your hard work on this assessment Laura – it made enjoyable reading.

You had clearly spent time writing text which was targeted at a general audience, you had proof-read your work carefully to minimise spelling and grammatical errors and had succinctly summarised your interview with Professor Marson.

In future, aim to write in short sentences – this will help improve the clarity of your work. Also, support each fact with a suitable reference and ensure that assessments start with an introduction to your work.

In general, a good piece of work – well done Laura!



Thank you for submitting your assessment on time Laura.

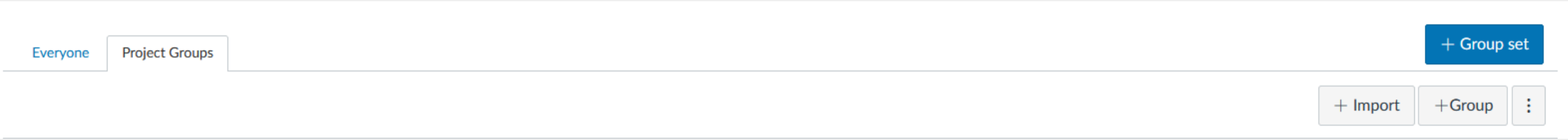
You have achieved a piece of work of the correct length with some appropriate references. The title was also a good overview of the work.

However, the work needed much more depth for higher marks. It would also have benefitted from thorough proof-reading and a comprehensive list of appropriate references.

This is a good starting point but I'm confident you can submit higher quality work in future.

	SQL	R	Python	GitHub
Student 1	2	3	4	5

	SQL	R	Python	GitHub
Student 1	2	3	4	5
Student 2	1	5	3	4
Student 3	5	4	2	1
Student 4	3	1	5	2
Student 5	4	2	1	3


Everyone
Project Groups
+ Group set
+ Import
+ Group

“...This is a well-constructed for loop...”

~~75%~~

‘Protégé’ effect

‘Protégé’ effect

Minimal input

‘Protégé’ effect

Minimal input

Coding ‘buddy’

‘Protégé’ effect

Minimal input

Coding ‘buddy’

Study group

‘Protégé’ effect

Minimal input

Coding ‘buddy’

Study group

Coding practice!

Clashes

Clashes

Poor/no feedback

Clashes

Poor/no feedback

No submissions

CODING KNOWLEDGE

FEEDBACK SKILLS

SOFTWARE SUITABILITY

ST: Situation/Task - Explain the situation or task so others understand the context.

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A: Action - Give details about what you or another person did to handle the situation.

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A: Action - Give details about what you or another person did to handle the situation.

R: Result - Describe what was achieved by the action and why it was effective.

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T: I'd never used SQL before and we'd only had 1 2-hour lecture on the topic

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T: I'd never used SQL before and we'd only had 1 2-hour lecture on the topic

A: Therefore, I went onto YouTube and found some useful tutorials and used these together with the taught material

R: After a lot of trial and error I was able to complete the 1st assessment. I've realised that I will need to go beyond the provided material when it comes to coding assessments in future, and be prepared to practice a lot!

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