

# Two advertising messages ... (no poll today)

Ethel Tshukudu, a PhD student, is studying how people learn new programming languages

She would still like to talk to some students from this course about your experiences

## Details

Please **only people who didn't know any Java before this course**

Interviews will be about 50 minutes, informal

Information will not be disclosed in any way that reveals your identity

*Especially not to me*

£10 Amazon voucher as compensation

Contact Ethel at [2371984t@student.gla.ac.uk](mailto:2371984t@student.gla.ac.uk)

Online Labs - Student Survey

Dear Student,

we are requesting your feedback on the online labs. This is important to you, as well as us, as the results will be used to help us identify any issues and improve the delivery of the labs next semester.

This will be open until the end of Friday November 6. All responses will be anonymous and will not allow the identification of individuals.

\* Required

1. What level are you \*

☐ Level 1

☐ Level 2

☐ Level H

Submit

Never give out your password. Report abuse

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Link posted on Teams (Announcements channel)  
Please complete by Friday 6<sup>th</sup> November

# Important thread building blocks

## Methods of java.lang.Thread

- start()
- interrupt()
- join()
- sleep() (*static*)

## java.lang.Runnable interface

- run()

## Other relevant things

- InterruptedException

# Possible issues when using threads

Safety – one thread overwriting data that another is using

Addressed by locking – **synchronized** keyword, or Lock objects

Liveness, especially deadlock

Triggered by locking – each thread is waiting for the other, neither can progress

Addressed by making sure that locks are accessed in a defined order





Everyday threads/locking example