

EBU4201 (2018/19): Introductory Java Programming

LECTURERS

Student Classes 01 – 10

Teaching Weeks 1+3+4

Dr Paula Fonseca ✉: paula.fonseca@qmul.ac.uk (**Module Organiser**)

Teaching Week 2

Dr John Woodward ✉: j.woodward@qmul.ac.uk



Labs and other coursework will be supported by several **Demonstrators.**

Student Classes 11 – 22

Teaching Weeks 1+3

Dr John Drake ✉: j.drake@qmul.ac.uk [classes 11 – 16]

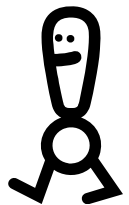
Prof Simon Colton ✉: s.colton@qmul.ac.uk [classes 17 – 22]

Teaching Weeks 2+4

Dr Gareth Tyson ✉: g.tyson@qmul.ac.uk

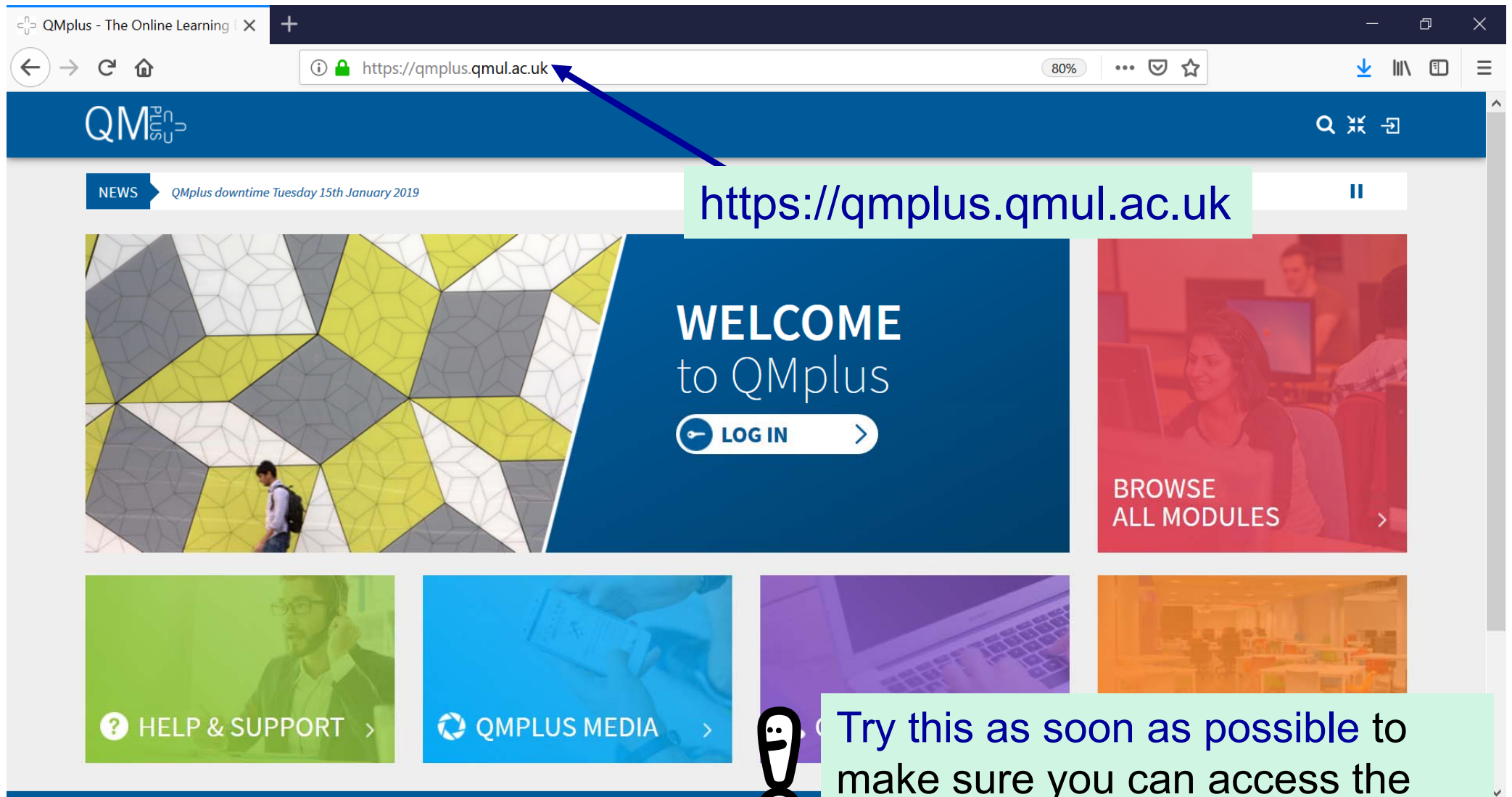
Important Course Information (1/5)

- Course website:
 - Login to QMPlus → <http://qmplus.qmul.ac.uk>
 - Use your *College account*
 - Course Area: EBU4201 – Introductory Java Programming – 2018/19
 - Check it regularly, as we will put there information related to, e.g. *extra practice exercises*
- Email:
 - You are expected to check your QMUL email account every week!
 - You can link your QMUL email account to your BUPT account



Emails sent to lecturers must be only from your QMUL or BUPT student email account; emails from other accounts are ignored.

Important Course Information (2/5)



The screenshot shows the QMplus website in a web browser. The address bar displays <https://qmplus.qmul.ac.uk>. A blue arrow points from this URL to a light green callout box containing the same URL. The website header features the QMplus logo and a search icon. Below the header, a 'NEWS' section mentions 'QMplus downtime Tuesday 15th January 2019'. The main content area includes a large 'WELCOME to QMplus' banner with a 'LOG IN' button, a 'BROWSE ALL MODULES' button, and four smaller buttons: 'HELP & SUPPORT', 'QMPLUS MEDIA', and two others partially visible. A cartoon stick figure points to a light green callout box at the bottom right.

<https://qmplus.qmul.ac.uk>

Try this as soon as possible to make sure you can access the EBU4201 course area in QMplus!

Important Course Information (3/5)

- Message board:

- Use the **Message Board** forum activity in the EBU4201 course area
- This is for all general questions related to the module [**BUT** *no personal questions please*]
- Check existing discussions in the forum, before posting a new question
- You **must not** post code on the **Message Board** forum



The **Message Board** forum is the primary way of communication in this module.

- Feedback:

- Please give feedback to lecturers during or straight after the lecture
- Do **not** wait until the next **SSLC** meeting

Module Reps, please!!

SSLC = Student-Staff Liaison Committee

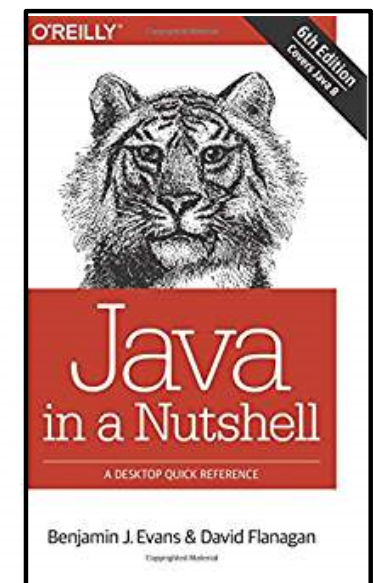
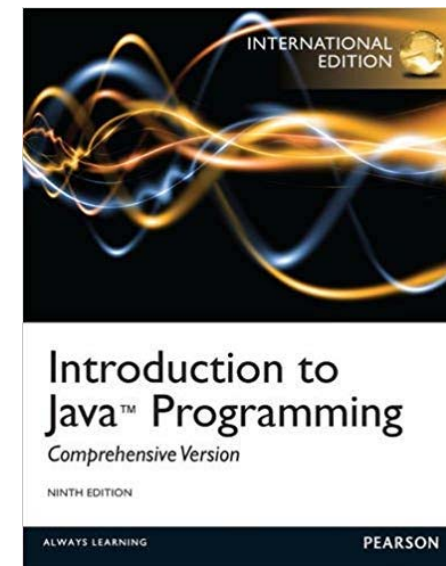
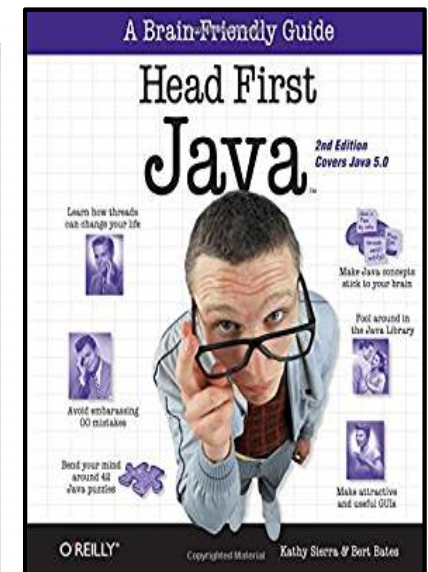
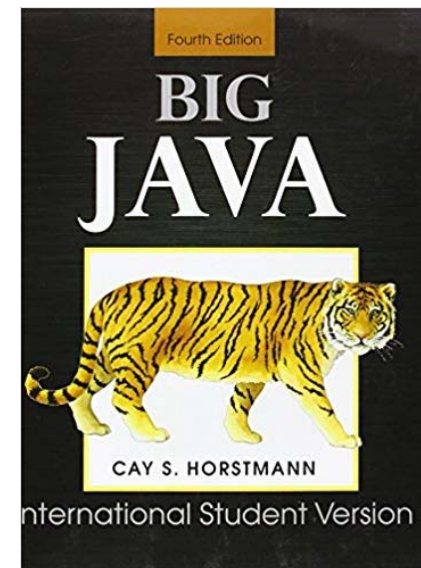
Important Course Information (4/5)

- **Tutorial:** 1 hour *each teaching week*
 - **Format:** A set of pre-prepared questions by the lecturer is covered
 - *If you want specific questions to be covered in the Tutorial*, you must submit them (using the course's **Message Board** forum) in advance
 - **Exercise solutions** will **not** be provided in QMplus; make sure you participate in your scheduled **Tutorial** session to understand the exercises and their solutions
- **Office Hour:** 1 hour *each teaching week*
 - **Format:** Students can ask questions to the lecturer on a 1-to-1 basis
 - **Schedule of Office Hours:** see the **MODULE INFO** block (*) in the EBU4201 course area in QMplus

(*) Top right hand side of the main page.

Important Course Information (5/5)

- **Lecture Notes:**
 - Available in QMplus a few days **before Lectures**
 - Get them from the **Teaching Week x** topic of this course area in QMplus
- **Recommended Textbooks:**
 - **Details:** see topic **Module Information** of this course area in QMplus
- **Other Reading Resources:**
 - See the **Recommended Reading** and **Useful Links** sections, inside each of the **Teaching Week x** topics of this course area in QMplus



Course Aims and Objectives

- The course provides:
 - an introduction to Object Oriented Programming using Java
 - an introduction to practical programming skills
- The course aims to give each participant:
 - knowledge of the basic concepts of programming in an object-oriented language
 - knowledge of the basic features of the Java programming language
 - practice in developing simple object-oriented programs
 - solid foundation to successfully take module EBU5304 (Software Engineering) in year 3

Course: Table of Contents

- Week 1

- Basic history of Java
- Basic Java constructs
- Introduction to Object-Oriented (OO) Programming
- OO Examples

- Week 2

- Arrays
- Designing and Writing a Java Program
- Inheritance
- Abstract Classes
- **Object** class

- Week 3

- Interfaces
- Garbage Collection (GC)
- Numbers and Strings
- Basic GUI

- Week 4

- Advanced GUI
- Exceptions and Assertions
- File I/O
- Collections and Sorting
- Packaging
- Overall revision

Assessment: Course Mark Components

- 60% Final Examination
 - Total of 4 compulsory questions from all the topics covered in the lectures
 - Duration: 2 hours
- 40% Coursework, made up of:

Multiple Choice Test 1 (Labs 1-4 & Weeks 1+2)	12.0%
Multiple Choice Test 2 (Labs 5-8 & Weeks 3+4)	12.0%
Question Demonstration from Lab 1	2.0%
Question Demonstration from Lab 3	2.0%
Question Demonstration from Lab 6	2.0%
Mini-Project	10.0%

Coursework: Labs & MCQs

- **9 Lab Experiments:** Executed individually in the computing lab, under the supervision of lab **Demonstrators**, during a **2 hours timeslot**
 - The 2 hours allocated for each lab may **not** be sufficient – you will likely have to spend extra time each week working on your code
 - Do **not** work as a group – it is important that each student understands each exercise themselves
 - Labs **1+3+6 are assessed**; you need to show your code and answer questions about it, to a Demonstrator in the lab
 - + you get feedback from Demonstrators
- **2 MCQs:** Executed under examination conditions, invigilated by the **Demonstrators**
 - Questions include a mixture of: **a)** theoretical questions (from the lecture topics) and **b)** lab-based questions.
 - **Duration:** 1 hour

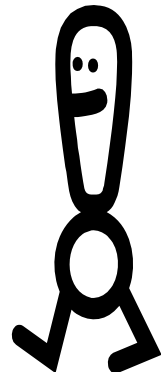
MCQ = Multiple Choice Questionnaire

Coursework: Mini-Project

- What:
 - Students are given a problem specification
 - Students design and implement a Java application, that must satisfy all the requirements in the problem specification
- How:
 - Executed individually by each student, and submitted via QMplus
 - Individual feedback provided via a marking sheet
- Duration: approx. 3 weeks

Course: Regulations (1/2)

- Applying for **Exenuating Circumstances (EC)**:
 - Students must submit claims as soon as possible (by filling in a form), and at the latest:
 - For **coursework**: within 7 days of that coursework's deadline.
 - For **examinations**: within 7 days of the examination.
 - Claims submitted after this deadline will NOT be considered.
 - Information about ECs is in QMPlus in the “JP Student Common Area” (<http://qmplus.qmul.ac.uk/course/view.php?id=2078>).



Examples of things that are **not ECs**:

- planned holidays;
- job interviews;
- GRE or IELTS preparation or test;
- misreading timetables;
- computer problems;
- not being aware of rules or procedures.

Course: Regulations (2/2)

- To pass the course, you need to:
 - Pass the Coursework (i.e. achieve a $\geq 30\%$ mark, in QMUL scale)
 - AND
 - Your combined (Exam + Coursework) mark must be $\geq 40\%$, in QMUL scale
 - Attention: If you fail the Coursework, then you fail the course regardless of your Exam mark
- Additional Information:
 - Please consult your “Student Handbook”.

“Ground” Rules

- No mobile phones – even on silent
- No food
- Minimal dancing or singing in class
- No pets allowed (unless they are cute)
- Arrive on time



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- *If you do not understand a point:*
 - Raise your hand and ask me to explain OR
 - Use the [Message Board](#) forum and/or [Office Hour](#) after the lecture.
 - TRY TO BE INTERACTIVE!

How to Succeed / How to Fail

To succeed, you MUST ...

- Do all the exercises (from lectures, tutorials, labs) by yourself
- Attend all lectures and labs
- Read books and the teaching materials in QMplus
- Do additional practice exercises
- Remember to access QMplus at least once per week, to check for news/updates
- **ASK!** (Lecturers and Demonstrators)
- Aim to fully understand new concepts

You WILL fail if you ...

- Relax too much
- Don't assimilate material covered in lectures
- Don't attend labs
- Don't ask for help
- "Borrow" from "others": they can't help you in the exam



Questions?
Feel free to ask now!