

Year 2 Computing – Semester 3 COMP H2031: OOAD



Object Oriented Analysis & Design

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Academic term	2021/22
Year of study	Year 2
Semester	SEMESTER ONE – AUTUMN paper
Date of examination	Week 7 lab: Group 6 - Monday 8th November 2021
Time of examination	35minutes test + 5 minutes ZIP and upload

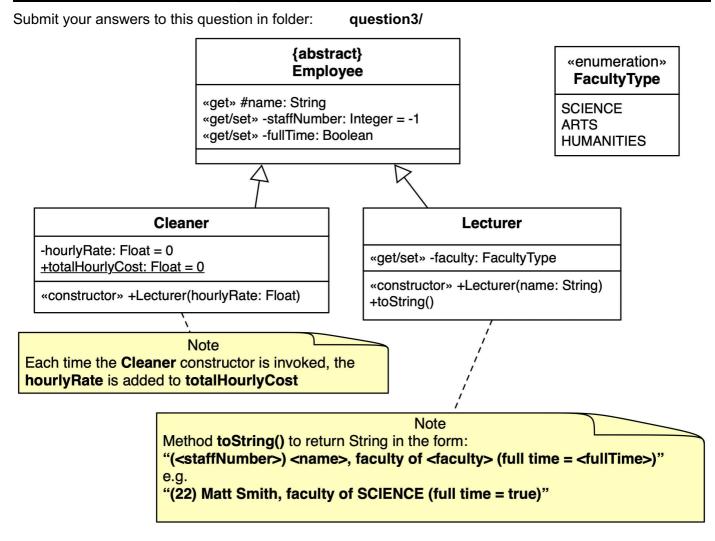
COMP H2031: Object Oriented Analysis & Design	
PHP & Java Coding Test – [[part 2 Java – question 3]]	

Internal Examiner(s)	Dr. Matt Smith
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Instructions to candidates:

1.	To ensure that you take the correct examination, please check that the module and programme which you are following is listed in the table above.
2.	This part of the test is worth 50 marks
3.	Submit one ZIP file: • question3.zip

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Qu. (3a) Write Java files to implement the classes in the diagram above

Qu. (3b) Write a main(...) method in class Main to:

- Create a **Lecturer** object with hourly rate of 12.99
 - o name = Sean Murphy / staffNumber = 88 / fullTime = false / faculty = ARTS
- Print out the details of the Lecturer object the output should be:
- Print out the value of totalHourlyCost from class Cleaner (should be zero)
- Create 2 Cleaner objects (c1 and c2), each with an hourly rate of 12.99
- Print out the value of **totalHourlyCost** from class **Cleaner** (should be 25.98)

Your program output should look as follows

```
$ java Main
(88) Sean Murphy, faculty of ARTS (full time = false)
0.0
25.98
```