

Sprint 1

Revision Session

TEST

- **Venue: CWB 301**
- **Time: Tuesday 17 October**
 - Group A: 16:00
 - Group B: 17:00
- **Duration: 45 minutes**
- **Marks: 100**
- **Weight: 15%**

What to revise

- **Sprint 1**
 - What to focus on during this week?
 - Exercises
 - Pluralsight tutorials:
 - transcripts
 - examples
 - learning checks
 - Check references at the bottom of the pages

Types of exercises

- As in mock test on Blackboard
- Around 15 questions
 - Including 4-5 statements each
- T/F questions
 - theory
 - Programming
- At least one T answer and one F answer
 - If all answers are answered either T or F
 - a mark of zero will be awarded for that question

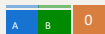
Sprint 1

Agile Methodologies

- What to focus on?
 - Waterfall
 - V-Model
 - Agile methodologies

Practice question

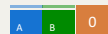
- The waterfall model is recommended for projects where requirements are not well documented.
 - A. True
 - B. False



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Practice question

- In the V-Model, tests are designed and developed once the system has been developed.
 - A. True
 - B. False



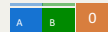
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Groovy

- What to focus on?
 - Groovy as a programming language
 - Syntax for basic logic
 - Functions
 - Closures and collection operators

Practice question

- In Groovy, we have to declare the types of variables.
 - A. True
 - B. False



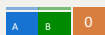
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Practice question

- The following Groovy program


```
def op(a,b) {
  a=a+b
}
```

`op(1,2)`
outputs 1
 - A. True
 - B. False



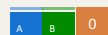
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Practice question

- The following Groovy program


```
def op(a,b) {
  a=a+b
}
```

`op(1,2)`
outputs 2
 - A. True
 - B. False



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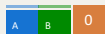
Practice question

- The following Groovy program

```
def op(a,b) {
  a=a+b
}
```

outputs true (the assignment is performed)

- A. True
- B. False



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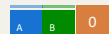
Practice question

- The following Groovy program

```
def op(a,b) {
  a=a+b
}
```

outputs 3

- A. True
- B. False



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Gradle

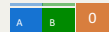
- What to focus on?

- Gradle
- Build automation using
 - Tasks
 - Internal dependencies
- Dependency management
 - Repositories
 - External dependencies

Practice question

- Gradle uses Groovy to define and configure tasks and their dependencies

- A. True
- B. False

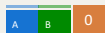


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Practice question

- A task dependency requires the declaration of a repository (e.g. MavenCentral or JCenter)

- A. True
- B. False



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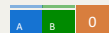
Practice question

- When executing the command

```
./gradlew -q tasks -all
```

Gradle executes all tasks declared in a Gradle script following the order defined in task dependencies.

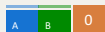
- A. True
- B. False



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Practice question

- Assuming a task `dolt` has been declared, when executing the command `./gradlew -q dolt` Gradle executes all tasks declared in a Gradle script following the order defined in task dependencies.
 - A. True
 - B. False



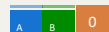
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Practice question

- Given the following script


```
task A
A << { println 'A' }
task B
B << { println 'B' }
A.dependsOn B
```

 when we execute `./gradlew -q B` we should get
 - A
 - B
 on the output console
 - A. True
 - B. False



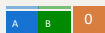
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Practice question

- Given the following script


```
task A
A << { println 'A' }
task B
B << { println 'B' }
A.dependsOn B
```

 when we execute `./gradlew -q A` we should get
 - A
 - B
 on the output console
 - A. True
 - B. False



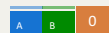
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Practice question

- Given the following script


```
task A
A << { println 'A' }
task B
B << { println 'B' }
A.dependsOn B
```

 when we execute `./gradlew -q A` we should get
 - B
 - A
 on the output console
 - A. True
 - B. False



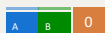
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Practice question

- Given the following script


```
task A
A << { println 'A' }
task B
B << { println 'B' }
B.finalizedBy A
```

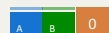
 when we execute `./gradlew -q B` we should get
 - B
 - A
 on the output console
 - A. True
 - B. False



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Resources available

- Exercises on GitHub
- Resources on Pluralsight
 - Videos and transcripts
 - Exercises
 - Learning checks
- Mock test on Blackboard



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Good luck!