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
}
op(1,2)
```

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
}
op(1,2)
```

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 depencency 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** doIt **has been declared, when executing the command**

  ./gradlew -q doIt

  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**

```
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' }
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!