# Week 02: Coursework

## Java Basic

1. Fork and clone the following Github repository.

<https://github.com/busyQA-java-developer/busyqa-02-java-3-coursework-initial.git>

1. Import the Gradle project into Eclipse.
2. There are several exercises in the repository. Please read the following instructions to complete the Java programs:
3. *Exercise CheckOddEven (if-else):* Write a Java program called *CheckOddEven* that prints "EVEN" if the *int* variable "number" is even or prints "ODD" otherwise. The program shall always print “DONE” before exiting.
4. *Exercise CheckPassFail (if-else):* Write a Java program called *CheckPassFail* that prints "PASS" if the *int* variable "mark" is more than or equal to 50 or prints "FAIL" otherwise. The program shall always print “DONE” before exiting.
5. *Exercise PrintNumberInWord (nested-if, switch-case):* Write a Java program called *PrintNumberInWord* which prints "ONE", "TWO",... , "NINE", "OTHER" if the int variable "number" is 1, 2,... , 9, or other, respectively. Use (a) a "nested-if" statement; (b) a "switch-case" statement.
6. *Exercise SumAndAverage (Loop):* Write a Java program called SumAndAverage to produce the sum of 1, 2, 3, ..., to 100. Also, compute and display the average. The output shall look like this:

The sum is 5050

The average is 50.5

1. After you finish the four exercises, please commit and push your changes to your GitHub repository.
2. You can find the solutions for the exercises above in the Github repository:

<https://github.com/busyQA-java-developer/busyqa-02-java-4-coursework-complete.git>

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# Additional Exercises - Optional

## Conditional Statements, Loops, Arrays and Strings.

1. Please create a new Gradle project in Eclipse.
2. Inside the project, create a java package called “*com.busyqa.exercises”.*
3. *Conditional Statements and Loops* - Open the following link and create a class in the “*com.busyqa.exercises*” package for each exercise from exercises 1 to 15. You can find the solutions to the exercises in the link.

<https://www.w3resource.com/java-exercises/conditional-statement/index.php>

1. *Arrays* - Open the following link and create a class in the “*com.busyqa.exercises*” package for each exercise from exercises 1 to 15. You can find the solutions to the exercises in the link.

<https://www.w3resource.com/java-exercises/array/index.php>

1. *Strings* - Open the following link and create a class in the “*com.busyqa.exercises*” package for each exercise from exercises 1 to 15. You can find the solutions to the exercises in the link.

<https://www.w3resource.com/java-exercises/string/index.php>

1. After you finish the exercises, please upload your project to your GitHub repository.

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