

# Associate – Platform Hiring Exercise

**60-90  
minutes**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Start Time: \_\_\_\_\_

City: \_\_\_\_\_

End Time: \_\_\_\_\_

## Instructions:

- Duration of this exercise is 60-90 minutes. Please manage your time accordingly. There isn't any stipulated duration; only a guidance. However, sooner you complete the exercise, more marks you will get. Please work accordingly..
- Make any necessary assumption, and clearly state the assumptions made.
- Do not seek any help online or through any other source.

## Expectations:

- Write the compiling code using choice of your IDE (Eclipse, IntelliJ)
- Provide Unit Test Cases using JUNIT (if you are not conversant with JUNIT, just list down unit test cases)

## Problem Statement

Write production-quality code implementing a stack (LIFO structure - last-in-first-out). Apart from facility to add/remove item from the stack, code should have facility to peek the topmost item on the stack (without removing it) as well as a facility to find out if an item exists on the stack. Also provide a way through which type-safety of items on the Stack could be enforced. For storing data in the stack, you can leverage any appropriate Java collection other than `java.util.Stack`.

- Write appropriate unit test cases too
- State any assumptions made

## You will be evaluated on the following criteria:

- Code Completeness/ Correctness
- Code Structure and quality: Modularity, usage of OO principles, size of classes/functions, class/function/variable names, package/class structure
- Choice of data structures
- Unit Test cases
- Coding productivity (more time you take to submit the exercise, lesser you will score)

Better you do on above evaluation criteria, higher score you will get.

