



Project Assessment (Handout for Learner)

Module 6: Java Programming for Developers

Approved Assessment Centre: BELLS Institute of Higher Learning Pte Ltd

Candidate Name:



VERSION CONTROL RECORD

Version	Effective Date	Changes	Author
1.0	29th Aug 2023	First Edition	Program Creator: Chor Kun Xin Course Developer: Poh Soon Hock

Java Programming for Developers Project Assessment Handout



Candidate's Name (as in NRIC):	
Candidate's NRIC (Please use last four figures of NRIC, e.g. "SXXXX123A"):	S/T XXXX / _
Assessor's Name:	
Assessor's NRIC: (Please use last four figures of NRIC, e.g. "SXXXX123A"):	S/T XXXX/_
Duration of Assessment:	
Allocated Duration:	15 minutes
Start Time	
End Time	

Project Assignment

This **Project Assignment with Oral Clarification** is to gather evidence for the following learning Outcomes:

- LO2: Make use appropriate data types for variables
- LO3: Able to analyze and implement branching and loops
- LO4: Define and invoke methods with and without parameters
- LO5: Design simple classes and instantiate objects
- LO6: Implement single-level inheritance
- LO7: Implement method overriding
- LO8: Define and use abstract classes and interfaces



Project Assignment - Portfolio

Java Programming for Developers

Requirements

In this portfolio project, you will create an interactive **Create, Read, Update** and **Delete** application using Java.

- The application must be developed with Java. <u>No other frameworks are</u> allowed.
- The user must be able to perform CRUD on at least **one type** of object, resource or document (a todo task, a customer record, an expenditure etc.)
- Your project should feature a usable command line interface which allows the user to select which of the CRUD operations to perform.

Marking Criteria

UI/UX

 The application must have a command line interface which allows the user to select which operation to perform. Use Java's built-in methods (such as System.Scanner) to implement this interface.

Java Proficiency

- Your program must have at least one of the following:
 - At least one integer
 - o At least one double
 - At least one String
 - At least one array or collection

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- At least two for or while loops
- o At least two **if/else** or **if/else** if
- Your program must call at least three methods
- Your program must have at least two methods that accept one or more parameters
- You must have at least one class that can be instantiated. The class must have at least three methods that are called, and at least two methods that accept one or more parameters.
- You must demonstrate **inheritance** at least once
- You must override at least one **method**
- You must have at least one interface or abstract base class.

Submission

- The project must be hosted on a Github repository and the link must be submitted via the LMS.
- A zip file of all the source code and assets required to deploy the project must be submitted via the LMS.

Oral Clarification for Project Work

- The duration of the Oral Clarification is 15 minutes
- The assessor will conduct an oral clarification to verify the evidence collected
- The assessor may ask additional questions if evidence presented is insufficient to ascertain competency of the candidate

Individual

This project work is an individual assessment