

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/04/6/A

UNDERSTAND FUNDAMENTALS OF PROGRAMMING

NOV/DEC 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

TIME: 2 Hours

INSTRUCTIONS TO THE CANDIDATE

1. You are required to perform the following two tasks
 - a. **TASK 1:** Install and configure the JAVA environment
 - b. **TASK 2:** Java program for a simple calculator
2. These Practical carries 50 marks
3. You are given TEN minutes to go through the question paper

You will be provided with the following resources

- i. Working Computer
- ii. JAVA Development Environment (IDE) setup

Task 1: Install and configure the JAVA environment

(10 Marks)

- a) Run the JAVA Installer
- b) Follow the Installation Wizard correctly
- c) Set Environment Variables
- d) Test the Compiler

Task 2: Java program for a simple calculator

(40 Marks)

You are tasked with creating a Java program for a simple calculator. The program should have separate functions for addition, subtraction, multiplication, and division. Perform the following:

- a) Start by creating a Java program using the installed development environment
- b) Implement functions within your program as follows:
 - i. Create FOUR functions for addition, subtraction, multiplication, and division.
 - ii. Each function should take two numbers as input
 - iii. Each function should return the result of the corresponding operation.
- c) User input
 - i. The program should prompt the user to input two numbers and
 - ii. The program should prompt the user to choose an operation (addition, subtraction, multiplication, or division).
- d) Function calls: Depending on the user's choice, call the appropriate function to perform the calculation.
- e) Display the result: Display the result of the calculation to the user.

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