

061306T4CSC

COMPUTER SCIENCE LEVEL 6

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

UNDERSTAND FUNDAMENTALS OF PROGRAMMING

July/August 2024



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

PRACTICAL ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. In this practical assessment, you are required to perform the following task:
TASK : Develop a student-report program in Java.
2. The task has specific instructions.
3. You have **ten** minutes to read the instructions and check availability of resources.
4. You are allocated 3 Hours to perform all the tasks.
5. The assessor will record your performance at critical points using audio-visual means.
6. Any problem with the computer should be reported to the invigilator immediately.

This paper consists of three (2) printed pages.

Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

You are provided with the following resources:

- i. A functional computer.
- ii. Java integrated development environment - installed in the computer.

Task

Hekima Primary School is a public primary school offering CBC training in Nairobi County. The school currently has no computerised system to process pupils' grades in every assessment done. The school wants to introduce a computerised system by piloting with grade 3 which has 30 pupils and a class teacher. Each of the pupils takes five subjects; Mathematical Activities, Language, Kiswahili, Environmental Activities and Creative Activities. In a term, the pupils sit for three assessments namely: opener, midterm and end term assessments. The maximum score in each subject is 100. At the end of each term, the system should be able to calculate the average score in each subject and grade them using the following criteria: (60 Marks)

0-39: Below Expectation

40 -49: Approaches Expectation

50 – 69: Meets Expectation

70 – 100: Exceeds Expectation

- a) Design and develop a simple functional java system that will help the school to generate a report for every pupil at the end of each term using the information provided above.
- b) Use the papers provided to show the flowchart of the system as well as any other design requirements.

THIS IS THE LAST PRINTED PAGE.