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061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/10/6

Develop Computer Program

Nov/Dec 2024

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

easyexpert.com

PRACTICAL ASSESSMENT

Time: 2 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
    i. **TASK 1: Develop a C program**
    ii. **TASK 2: Develop a JAVA program**
2. You have been provided with the following resources:
    i. A computer installed with a C and JAVA compiler
3. Create a folder named **CDACCEXAMCP** on the desktop to store all the tasks done.

TASK 1: Develop a C program **(25 Marks)**

Makini primary school has hired you as their software developer. You are required to write a C program that grades student's marks. The program should prompt the user to enter marks for five subjects, computes the average, and then grade based on the criteria in Table 1.

Table 1

Marks	**Grade**
0-39	E
40-59	D
60-69	C
70-79	B
80 And above	A

TASK 2: Develop a JAVA program **(25 Marks)**

easyltat.com

Mlima hospital has tasked you with developing a program that computes the body mass index (BMI) of a patient and output the appropriate interpretation using Table 2.

NB: $BMI = \frac{\text{Mass(kg)}}{(height\ (m)^2}$

Table 2

BMI	**Interpretation**
0-18	Underweight
18.5-24.5	Normal
25-29	Overweight
Above 29.5	Obese