

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/08/6/A

Understand Artificial Intelligence

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

Time: 1 HOURS 40 MINUTES

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
 - i. TASK 1: Create a salary calculator.
 - ii. TASK 2: Create application that calculates area of objects.
2. Each task has specific instructions.

You have been provided with the following resources for the practical tasks:

- Working computer
- Python IDE

TASK 1: Create a salary calculator.

- a. Consider that the employees at KLM Company are paid house allowances depending on their job group as shown below:-

Job group	Allowance
J	5000
K	5500
L	6000
M	6500

- b. Launch the Python Internet Development Environment and create necessary project files.
- c. Develop the salary calculator such that:
- It prompts the user to enter payroll Number, name, gender, job group and salary.
 - The program then determines the gross pay, taxes, net pay
 - It displays employee's details, allowances on the screen.
- d. NOTE:

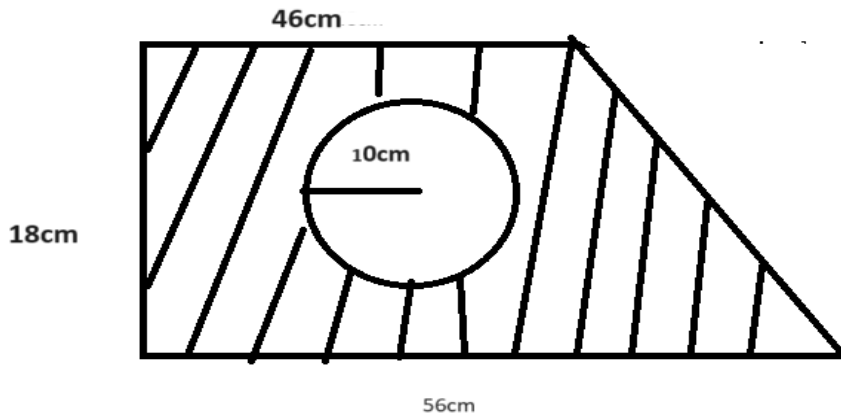
Gross pay = house allowance + salary

Taxes = 12% of salary

Net pay = gross pay - taxes

TASK 2: Create application that calculates area of objects.

Alizo Metal Company wishes to automate its operations using AI. Study the figure given below and create application that calculates area of objects.



- a. The program should prompt the user to enter the dimensions.

The program calculates the area of the trapezium, circle and the shaded part.

- b. The program should then display the calculations on the screen.

- c. The display should appear as shown below.

Area of Trapezium is:.....

Area of Circle is:.....

Area of Shaded Part is:....

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