

**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:-

<b>Job group</b>	<b>Allowance</b>
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:

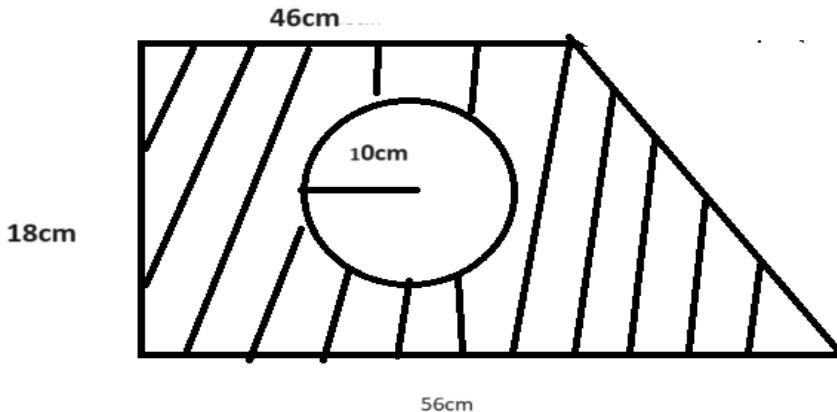
Gross pay = house allowance + salary

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.



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

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

- The program should then display the calculations on the screen.
- The display should appear as shown below.

**Area of Trapezium is:.....**

**Area of Circle is:.....**

**Area of Shaded Part is:....**

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