LAB EXERCISE 1 (SECJ1013)
PROGRAMMING TECHNIQUE 1
SECTION 04, SEM 1, 2024/2025

INSTRUCTIONS TO THE STUDENTS

- *This exercise must be completed **individually**.*
- *Any form of plagiarisms is **NOT PROHIBITED**. Students who copy or share their answers with others will receive **ZERO** marks (this applies to both the students who copied and those who shared their work).*
- *Please include your **name, matrics number, and the date** on your answer sheet.*

QUESTION

Draw a flowchart that determines the total salary of employees based on their working hours. The steps for calculating the total salary are as follows:

(a)   Get the number of employees. ***Input validation:*** if the number of employees is less than or equal to zero, prompt the user to enter it again until a valid value is provided.

(b)   Use a loop to get the number of hours worked by each employee. ***Input validation:*** if the hours are less than zero, prompt the user to enter it again until a valid value is provided.

(c)   For each employee, use a selection structure to check if the hours worked are greater than 40. If so, calculate overtime pay (overtime rate is 1.5 times the normal rate).

(d)   Calculate the total salary for each employee by summing regular and overtime pay.

(e)   Finally, display the total salary for all employees.