CAVENDISH UNIVERSITY ZAMBIA COM213: PROGRAMMING IN C ASSIGNMENT

(Alternatively you can use Python)

ANSWER ALL QUESTIONS

(For Full-Time /Part-Time & Distance Learners Students)

Instructions

- 1. Ensure that all your programs compile and do not have any errors.
- 2. Use comments where necessary to explain what your code does.
- 3. All programs should be accompanied by screen shots and documentations.(in Word)
- 4. Place all you project files in one folder and zip/ or RAR it. Name the zip/rar file using your student number_module name_student name: e.g
 000 001 Programming Surname Firstname
- Upon completion upload the zip/RAR file to ClanED
 The Assignment must be subjected to Turnitin or any credible anti plagiarism tool.
- 6. Be reminded that you will be required to defend your solutions at some point.(prepare adequately)
- 7. The Assignment is due on 20th October, 2023. Assignment submitted after due date will NOT be marked from the total marks allocated
- 8. Bibliography list of the books must be indicated, preferably use the Harvard Reference

QUESTION 1

Write a program that calculates and displays the weekly salary for employee who earns \$20 an hour on 30 regular working hours, and earns time and half (wages * 1.5) for over

time worked:

Required:

Prompt the User to only enter the number of hours worked.

QUESTION 2

Write a program (Financial application: future investment) that reads (prompts) in investment amount, annual interest rate, and number of years to invest, and displays the future investment values from year₁.... Year_T; using the following formula:

 $[Pt = Po (1+r)^t]$ where; Amount = principle * math.pow (1.0 + rate, year)

QUESTION 3

Write a program (**ZAMTEL Menu**) to simulate the MTN Menu using the Unstructured Supplementary Service Data (USSD) of *117#.

The system should prompts the user to enter a value which will correspond to the required functionalities.

(Kindly take time to study the CURRENT ZAMTEL USSD MENU *117# quick codes)

QUESTION 4

Create a program with basic functionalities of a Simple Scientific Calculator.

(Total =100 Point)

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