

CSC 1100 – Elements of Programming | QUIZ 1 | Semester 1, 2019/2020

Name:

Matric No:

Section:

1. INSTRUCTIONS:

- Attempt **all** exercises. Each question carries **equal marks**.
- Submit your codes by uploading the files using the link provided on Google Classroom. Only ONE (1) submission is allowed using the link above.
- All programming files must be submitted as .cpp or .txt.
- Name, Matric Number & Section should be included in the comments of the program file/s at the beginning.
- **This quiz bears 5 Marks (5% of your Total Course Evaluation).**

2. IMPORTANT DATES

SUBMISSION DEADLINE:

11th Nov, 2019 - 10:00 PM

3. EXERCISES

Exercise 1: A piece of wire is to be bent in the form of a rectangle to put around a picture frame. The length of the picture frame is 1.5 times the width. Write a program that prompts the user to input the length of the wire and outputs the length and width of the picture frame.

Exercise 2: You found an exciting summer job for five weeks. It pays, say, \$15.50 per hour. Suppose that the total tax you pay on your summer job income is 14%. After paying the taxes, you spend 10% of your net income to buy new clothes and other accessories for the next school year and 1% to buy school supplies. After buying clothes and school supplies, you use 25% of the remaining money to buy savings bonds. For each dollar you spend to buy savings bonds, your parents spend \$0.50 to buy additional savings bonds for you. Write a program that prompts the user to enter the pay rate for an hour and the number of hours you worked each week. The program then outputs the following:

- i. Your income before and after taxes from your summer job.
- ii. The money you spend on clothes and other accessories.
- iii. The money you spend on school supplies.
- iv. The money you spend to buy savings bonds.
- v. The money your parents spend to buy additional savings bonds for you.

*****END*****