



**BIRZEIT UNIVERSITY**

**Computer Science Department**

**COMP133 (Second Semester 2020/2021)**

**Assignment # 2 Due Date: Thursday( 29/4/2021) 11:59 PM on *Ritaj Only***

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Notes:

1. Submit your assignment (main.c File) through Ritaj only by replying on a message called Assignment 2 solution .
2. You should consider the same file structure mentioned below (**usage.txt and charges.txt**)
3. The assignment should be submitted on the due date, late submission will NOT be accepted for any reason.
4. The assignment is individual effort. Copying the assignment will be treated as a cheating attempt, which may lead to fail the course.  
(Late Assignments will not be accepted for any reason)

(Wattan Corporation) is an Internet service provider that charges customers a flat rate of \$7.99 for up to 10 hours of connection time. Additional hours or partial hours are charged at \$1.99 each.

Write a function charges that computes the total charge for a customer based on the number of hours of connection time used in a month. The function should also calculate the average cost per hour of the time used (rounded to the nearest 0.01), so use two output parameters to send back these results.

**You should write a second function**

round\_money that takes a real number as an input argument and returns as the function value the number rounded to two decimal places. Write a main function that takes data from an input file usage.txt and produces an output file charges.txt. The data file format is as follows:

Line 1: current month and year as two integers

Other lines: customer number (a five-digit number) and number of hours used

Here is a sample data file and the corresponding output file:

**Data file** usage.txt

10 2009

15362 4.2

42768 11.1

11111 9.9

**Output file** charges.txt

Charges for 10/2009

15362 4.2 7.99 1.90

42768 11.1 10.18 0.92

11111 9.9 7.99 0.81