PHPM 631 Assignment 2: Talking to a Computer
Due date: Submit on E-Campus by 11:59pm Sunday 2/5

Submission. Submit on blackboard by 11:59pm the day before the class they are due.
- Upload your "TEXT" document. Remember this is NOT the same as a "WORD" document

Late Assignments: Each student will be allowed one late assignment, due 7 days from the due date. NO other late assignments or make up will be accepted.

Plagiarism: If you consult any outside sources when doing your work, you are expected to further document these sources. Give credit where credit is due. Plagiarism will not be tolerated.

Guideline for assignment grading (3%)
- 70% (70 points): Bad (√ --) Did NOT follow all instructions
- 80% (80 points): Reasonable (√ -) Followed all instructions
- 90% (90 points): Good (√) Followed all instructions, and did good work
- 100% (100 points): Great (√ +) Followed all instructions and did great work

Objective

By the end of this assignment, you should be able to
- Describe how to program a computer directly to carry out simple tasks

Assignment 2: Talking to a Computer

This assignment is meant for you to understand how to program, that is give your computer simple commands, to carry out simple tasks. Once you have actually tried to do this for yourself, you will have a much better understanding of how everything is built using these fundamental elements. You should have done this once in class. Just do the same.

Recommended Action plan

1. Look over the slides on LMC (little man computer)
2. Start up "notepad" (you can use search to find it)
3. In notepad, write assembly code for the LMC to do the following. (Hint: it has 8 steps)
   - Read BILLED AMOUNT and COVERED AMOUNT from INPUT
   - Compute DISCOUNT AMOUNT (Hint: Often for health care services, you are billed for more than your insurance will cover for the service with an agreement that the providers will provide a discount for the difference of the two)
   - Output DISCOUNT AMOUNT
4. Now "translate" the assembly language you wrote into machine language for LMC

Required Submission

1. LMC assembly code & machine language code for doing the steps stated in the previous section