Lab 14 / Assignment # 03
Deadline: Sunday, Jan 22, 2017 11:59PM

Submission Instructions:

- Submit a single **8086** assembly language program file.
- Your file name must be A3_[your-roll-no].asm (e.g., A3_BCSF15M001.asm)
- You have to submit the file through email, and the title of your email must be Assignment3_[your-section]_[your-roll-no] (e.g., Assignment3_Morning_BCSF15M001 or Assignment3_Afternoon_BCSF15A001)
- You must follow the naming conventions, or you will be awarded with a **ZERO** in this assignment.
- You have to email your solution of this assignment to ahmad.muhammad@pucit.edu.pk before the deadline.
- Any submission which is after the deadline, or which doesn't follow the naming conventions, will be discarded and will not be evaluated, so you'll have to be careful about the naming conventions. (Believe me, you don't want to throw away your hard work just because you didn't follow the naming conventions, so be careful while submitting your solution)

Description and Requirement:

In Assignment # 02, you implemented the dump command which takes input from console (segment address, starting offset address, and ending offset address), and then displays the data just as dump command displays.

Now, in this Assignment, you have to implement the next and final deliverable of your semester project, which includes:

- Take parameters from command-line parameters instead of console.
- Then print the data in the format of dump command.

When taking command-line parameters, you have to implement following cases:

- If no. of parameters = **0**:
  - o Use the default segment address = **073FH**
  - o Use the default starting offset address = **0100H**
  - o Use the default ending offset address = **017FH**
- If no. of parameters = **1**:
  - o Check if this parameter contains a colon (**:**) or not.
    - ▪ If yes
      - • Segment address will be the number formed from the substring from start to wherever the colon is.
      - • Starting offset address will be the number formed from the substring from colon to end.
      - • Ending offset address will be starting offset address + **7FH**

- ▪ If no
  - Use the default segment address **= 073FH**
  - Starting offset address will be the number formed from the parameter.
  - Ending offset address will be starting offset address **+ 7FH**
- If no. of parameters **= 2**:
  - o Check if the first parameter contains a colon (**:**) or not.
    - ▪ If yes
      - Segment address will be the substring of first parameter from start till the colon.
      - Starting offset address will be the substring of first parameter from colon till end.
      - Ending offset address will be taken from the second parameter.
    - ▪ If no
      - Use the default segment address **= 073FH**
      - Starting offset address is the number formed by the first parameter.
      - Ending offset address is the number formed by the second parameter.
- If no. of parameters **>= 3**:
  - o You don't have to tackle this case, just print an error message.