

# **American International University- Bangladesh (AIUB)**

Department of Computer Science

Faculty of Science & Technology (FST)
Spring 22-23

Lab Task -2

Zuhair Ahmed

ID: 20-42115-1

# COMPUTER ORGANIZATION AND ARCHITECTURE

Section: B

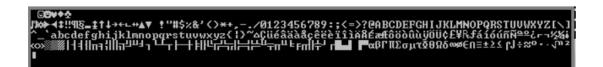
**Course Teacher:** 

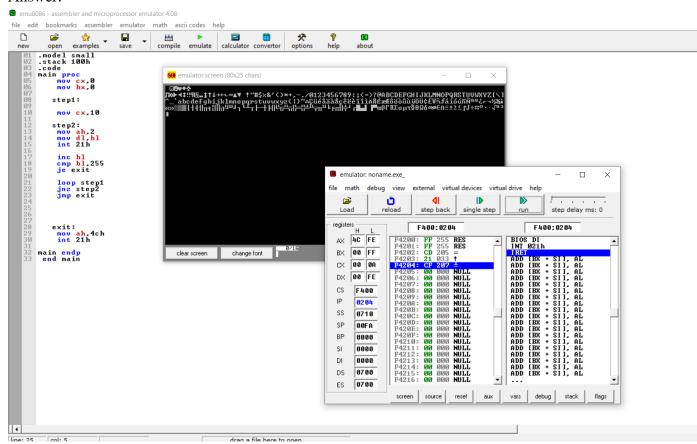
SAEEDA SHARMEEN RAHMAN



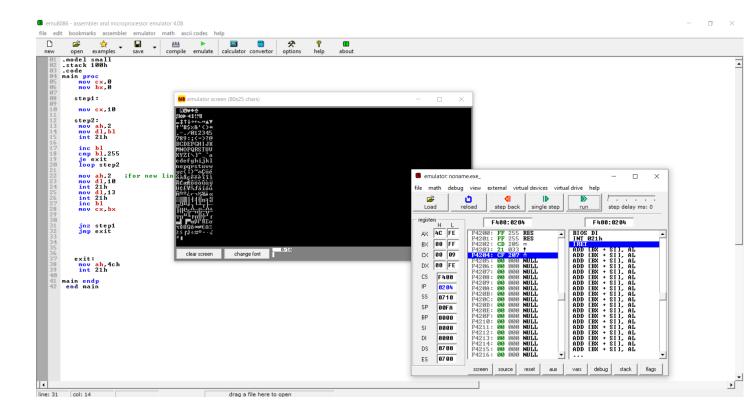
Task: 1

Write an assembly <u>probram</u> to print all the ASCII code from 0 to 255. Hints: use <u>inz</u> and <u>dec</u> instructions Sample Output





If I want to print 10 Characters in each line, then the modified code will be-----

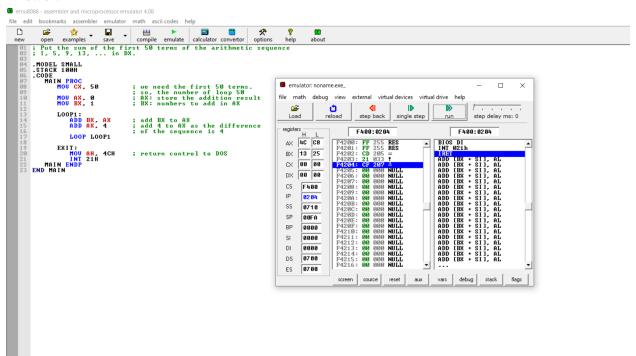




Task: 2

Put the sum of the first 50 terms of the arithmetic sequence I, 5, 9, 13, ... in DX. **Hints**: Employ LOOP instructions to do the following.

first we find how many loops needed: (last term – first term )/ difference (148 - 1)/3 = 49 loops So put cx = 49

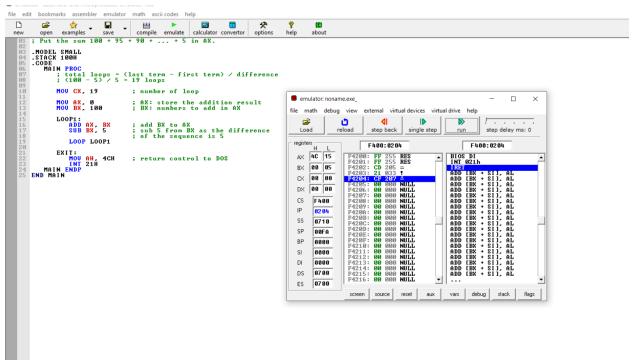




Task: 3

Put the sum 100 + 95 + 90 + ... + 5 in AX. **Hints**: Employ LOOP instructions to do the following.

first we find how many loops needed: (last term – first term )/ difference (100-5)/5 = 19 loopsSo put cx = 19



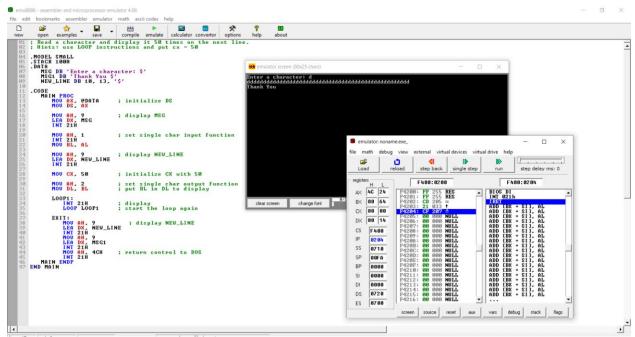


Task: 4

Read a character and display it **50** times on the next line. **Hints**: use **LOOP** instructions and put **cx** = **50** 

### **Sample Output**

Thank you.





Task: 5

Write a program to display a "?", read two capital letters, and display them on the next line In alphabetical order. Hints: use **cmp**, **ig**, **xchg** 

## **Sample Output**

Enter character: CB

BC

Thank you.

