Capital University of Science and Technology

Department of Computer Science

CS2521-Computer Organization and Assembly Language Lab (S3)

Mid Term Exam BS(CS)

Semester: Fall 2022	**Max Marks:** 40
Date: Nov 29, 2022	**Time: 90** Mins

Instructor: Adnan Jelani

Instructions:
- There are two questions in this paper. Attempt both of them.
- Submit word document containing **code** and **screenshots of the output.**
- Save the document with your registration number (*Registration number only*)
- This exam carries 20% weightage towards the final evaluation.
- Use good coding practices.

Name: **Reg. No.**

CLO-1

Question No. 1.   **(10)**

Write a program in assembly language that takes a single digit number from the user;
- If the input is even: User is asked to enter another number and the sum of both numbers is displayed with an appropriate message.
- If the input is odd: Message is displayed, "Input was odd".

CLO-2

Question No. 2.   **(10)**

(a) Write program in assembly language that prints the following pattern on the screen using **nested loops**.

```
#
##
###
####
```

(b) Write program in assembly language that keeps taking input from the user until "Enter Key" is pressed (use ASCII value of enter key). Once the enter key is pressed, print the smallest number entered by the user.

Good Luck :)