National University
Of Computer and Emerging Sciences

Assignment # 02

Course: EE2003-COAL
Instructor: Safia Fatima
Due Date: See Slate

Task 1:
Write code for a subroutine that computes the following summation and stores the result in AX register before returning:

$$\sum_{k=0}^{n} \frac{(-1)^k}{(2k+1)!}$$

Note:
'n' should be passed as parameter to the subroutine.
There should be a separate subroutine for finding factorial.

Here is a rough structure of the code:

Factorial:
    //calculates factorial
Summation:
    //call Factorial
    //calculates summation
Main:
    //call Summation

Task 2:
Using 16-bit assembly language concepts, print your roll number (e.g: 20P-1234) at the **exact center** of your Dosbox Console Screen.

Note:

- All these tasks must be done using 16-bit assembly programming concepts taught to you in the class.
- Submit *.asm* files for both the tasks. Also submit screenshot of output in Task 2.
- **Any plagiarized work will be marked straight 0.**
- Good Luck :)