Final Lab Exam – (60 min)

Name: **ID:**

Question 1:

a) Write a Python function named **Count_digits** that takes a string as a parameter and returns the number of digits in the string.

   Note: The function must NOT read input from the user.

   The function must NOT print anything.

b) Write a script that asks the user to enter a sentence, then calls **Count_digits** and prints the number of digits in the sentence.

Example:
Please enter a sentence: Python2025 Lab Number of digits in sentence = 4

University of Science and Technology
Communications & Information Engineering Program
CSCI 101: Introduction to Computer Science – Fall 2025

Zewail City of Science and Technology

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Question 2:

Write a Python program that gets **student course marks** from the user and stores them in a dictionary, then displays the following:

- Total student marks
- Student percentage based on a total of **120**
- Student grade

Grade Rules:
A: 90 to 100
B: 80 to 89
C: 70 to 79
D: 60 to 69
F: less than 60

Notes:
- Input mark cannot be negative
- If the user enters a negative value, display an error message and ask again

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Input Example:

Enter Programming Grade: -15
Error, Invalid Input
Enter Programming Grade: 30
Enter Database Grade: 25
Enter Networks Grade: -10
Error, Invalid Input
Enter Networks Grade: 35
Enter Math Grade: 20

Output:
Student Grades = {'Programming': 30, 'Database': 25, 'Networks': 35, 'Math': 20}
Total student marks = 110
Student percent = 91.67 %
Student Grade = A