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

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Final Lab Exam – (60 min)

Name: **ID:**

Question 1:

a. Write a Python function named **Count_digits** that takes a string as input 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, calls Count_digits, and prints the number of digits in the sentence.

Example:
Please enter a sentence: Room 404 has 2 doors Number of digits in sentence = 3

Final Lab Exam – (60 min)

Question 2:

Write a Python program that builds a score dictionary for a competition. The program should:

- Prompt the user to enter a list of participant names, separated by commas.

- Prompt the user to enter a list of scores (comma-separated) for each participant in the same order.

- Store the names and scores in a dictionary where each name is a key and the corresponding score is the value (assume the number of names and scores are the same).

- Print the resulting dictionary.

- Determine the participant with the highest score and print their name and score.

Sample Run:

Enter names (comma-separated): Alice, Bob, Charlie
Enter scores (comma-separated): 80, 95, 70
{'Alice': 80, 'Bob': 95, 'Charlie': 70}
Top scorer: Bob (95)