Computer Programming: Assignment (15%):

○Please read the instructions carefully. Any form of deviation from these rules will not be tolerated.

Rules:-

- Solve each problem independently.
 - No module imports or built-in functions like min(), max(), sum(), etc.
 - Use only what you've learned in class so far.
 - Submit each problem as a separate .py file.
 - Compress all into a .zip only named: ID_section.zip and submit.

✓ example: UGR/0000/17_section1.zip

- Submitting someone else's work as your own.
- Copying and pasting code from the internet or another student.
- Using any AI tools such as ChatGPT, to generate solutions.
- Plagiarism of any kind is strictly prohibited.

Deadline:-

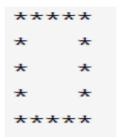
- Full Credit: June 5, 2025 12:30 PM EAT.(Click to Use the Google Form)
- Reduced Credit: June 7, 2025 12:30 PM EAT. (2.5 mark deduction per day late)
 (Click to Use the Google Form)

- 1) Lucky Number Detector(1 marks) A number is lucky if it is divisible by 7 or ends with the digit 7.
 - Write a function that returns True if a number is lucky.
 - Read an integer and print whether it's lucky or not.
- 2) Sum Until Stop(3 marks) Repeatedly ask the user for numbers until they type stop.Print the total sum of the numbers entered.
 - Use only while loops and conditionals.
 - Handle invalid (non-numeric) inputs gracefully using a check before converting.

3) Hollow Square (3 marks)

Print a hollow square of stars using nested for loops. The user provides the size n (n \geq 3), which represents both the height and width of the square.

Example for n = 5:



- Use only while loops and conditionals.
- Handle invalid (non-numeric) inputs gracefully using a check before converting.
- 4) Password Validator(3 marks) Ask the user to enter a password. Check and print "Valid"

if:

- It's at least 6 characters long
- It has no spaces
- It contains at least one digit (hint: use a loop to check each character) Otherwise, print "Invalid"

5) Exercise from the Worksheet: (5 marks)

- Choose any 3 questions from the loop section (Questions 9 to 14).
- Create one folder for this exercise and:
 - → Include the implementation and <u>screenshots</u> of your results.