For loop patterns

30 Points Possible

5/13/2024

Attempt 1

In Progress

NEXT UP: Submit Assignment

Add Comment

Unlimited Attempts Allowed

5/6/2024 to 5/14/2024

Details

In this assignment, you will write a program that creates patterns using for-loops given the size - an odd number between 7 and 15 (both inclusive).

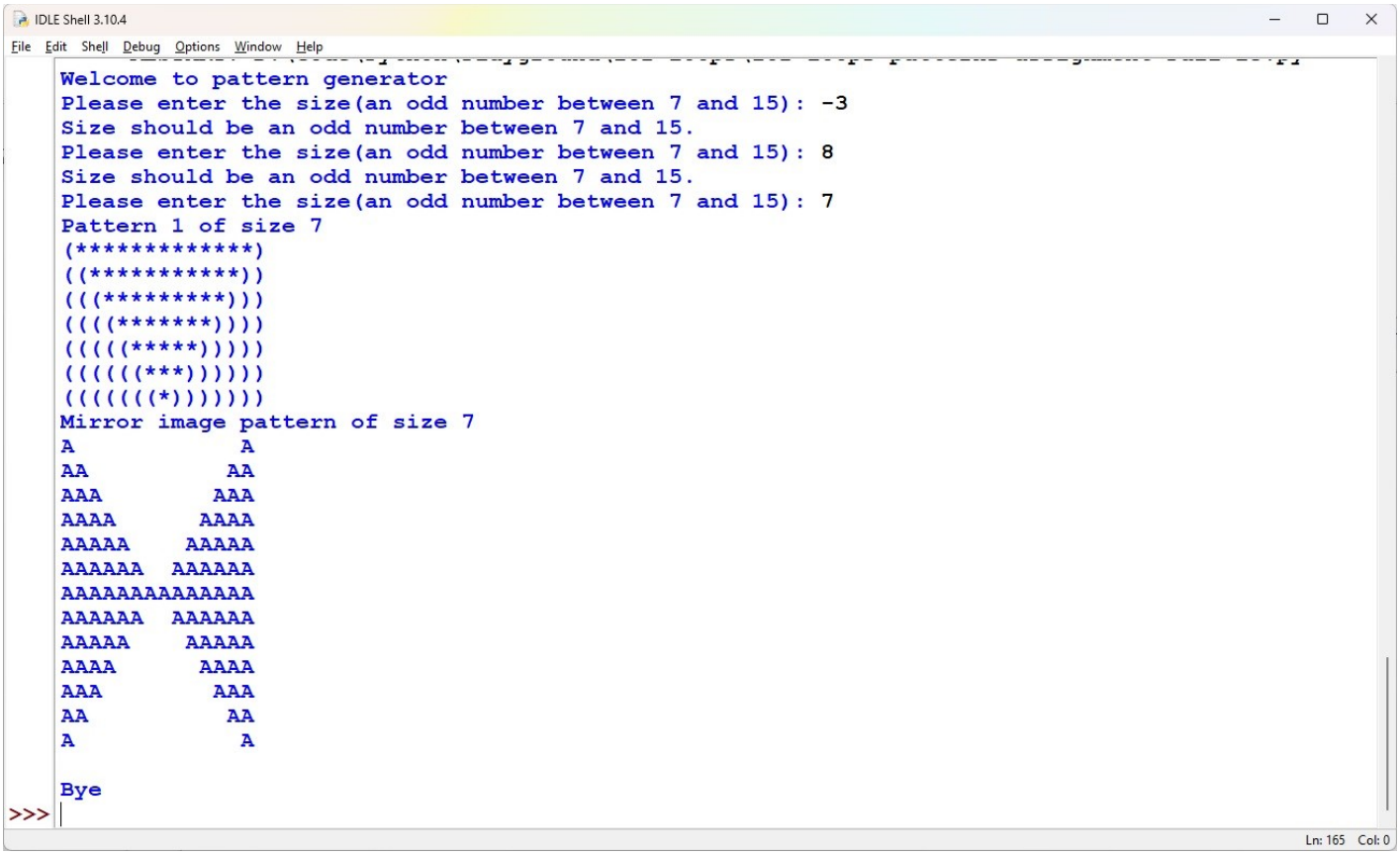
This program

- Asks for size (an odd number between 7 and 15 (both inclusive))
- Validates that size is an odd number between 7 and 15 (both inclusive) See the first sample run to see validation.
- Prints two patterns based on the given size.
  - Pattern 1: A pattern of (, * and) as shown below in the sample programs. This pattern has as many lines as the size of the pattern (user input) with each line having 2*size+1 characters total.
  - Pattern 2: A pattern with mirror image made up of letter "A" (See sample runs below). Hint: Split the figure in top-half and bottom-half parts, drawing them with two different for-loops. Look at each pattern closely and come up with a formula for the number of 'A's and number of spaces required on each row in the pattern.

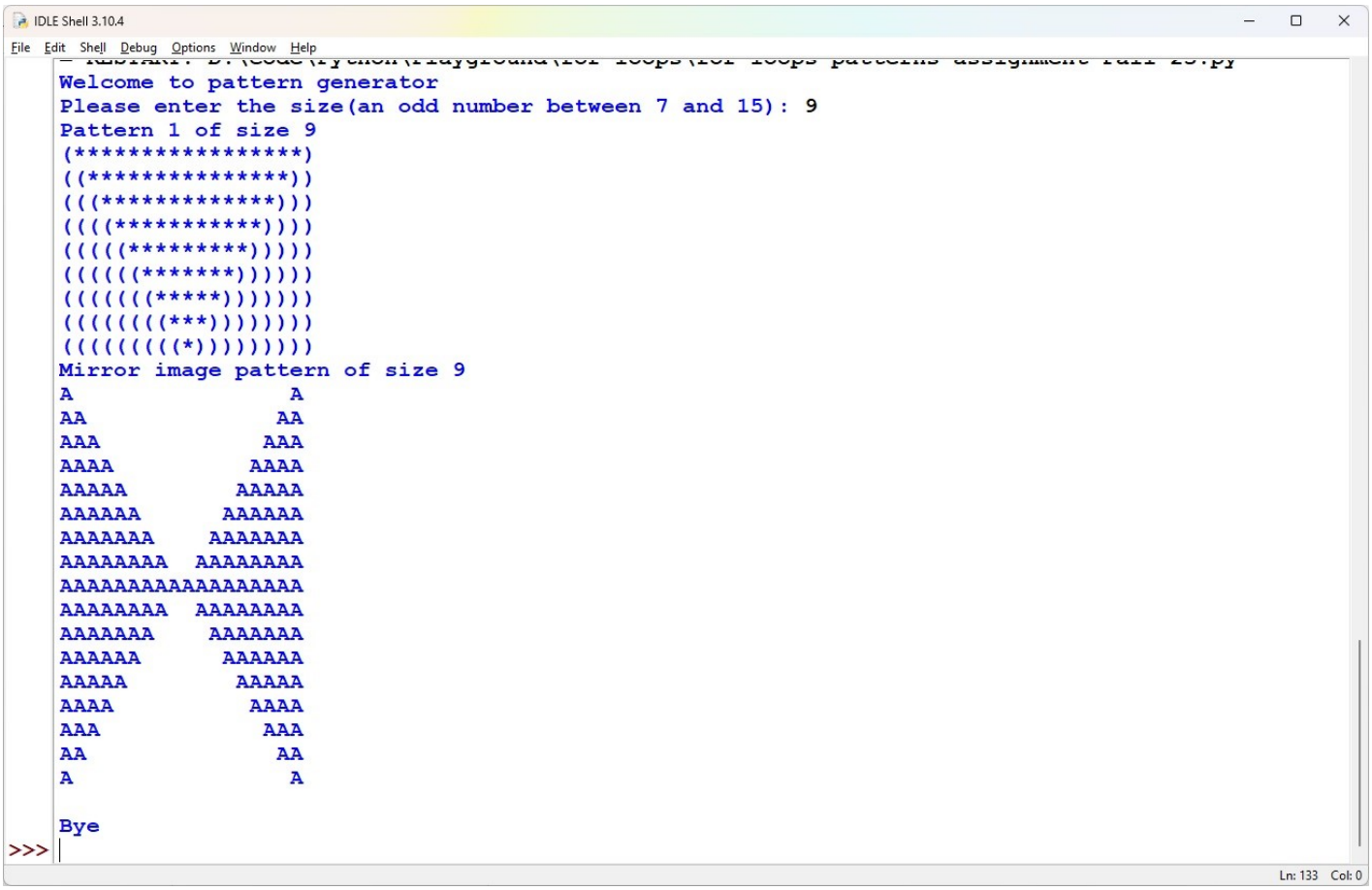
Add a comment block at the top of the file, providing your name, date, assignment name etc. Save the program to a file with a name of the format first_last_forloops.py and submit it as your solution.

Sample run 1 with validation and size = 7

Course Chat



Sample Run 2: size = 9



View Rubric

Some Rubric

Criteria	Ratings	Pts
Welcome message printed		/ 1 pts
Prompt the user for size and input validated using a while loop.		/ 5 pts
First pattern printed correctly		/ 10 pts
Mirror image pattern printed correctly using 2 for-loops		/ 10 pts
Code is well written, useful comments added.		/ 4 pts
		Total Points: 0

Choose a submission type

Upload

More

Drag a file here, or

Choose a file to upload

File permitted: PY

or

Canvas Files

Previous (https://bc.instructure.com/courses/2444521/modules/items/82624441)

Submit Assignment

Next (https://bc.instructure.com/courses/2444521/modules/items/82624444)