DCI Digital Career Institute Python Course

Task: Stone Game

Required Time: 30 minutes

You are assigned to create a Python program for a two-player game called the "Stone Game." Follow the steps below to complete the task:

- 1- Ask the user to input the total number of stones in the pile.
- 2- Ask the user to input the maximum number of stones that can be taken at once.
- 3- Prompt the user to enter the names of the two players.
- 4- Ask the user to input the player number who will start the game (1 for Player 1, 2 for Player 2).
- 5- Implement a game loop that continues as long as there are stones left in the pile:
 - a. Print the current number of stones in the pile.
 - b. Prompt the current player (whose turn it is) to enter a number of stones they want to take (between 1 and the maximum allowed).
 - c. Check if the input is valid and subtract the chosen number of stones from the pile.
 - d. If the pile is empty, break the loop.
- 6- Determine the winner based on the player who removes the last stone from the pile.
- 7- Display the name of the winning player.

Expected/Sample Output:

Here is an example of the expected output for this exercise: Welcome to the Stone Game! Enter the total number of stones in the pile: 15 Enter the maximum number of stones that can be taken at once: 3 Enter the name of Player 1: Alice Enter the name of Player 2: Bob Enter the player number who will start the game (1 for Alice, 2 for Bob): 1 Game Start! Current stone count: 15 Alice's turn. Enter a number of stones to take (1-3): 2 Current stone count: 13 Bob's turn. Enter a number of stones to take (1-3): 3 Current stone count: 10 Alice's turn. Enter a number of stones to take (1-3): 1 Current stone count: 9 Bob's turn. Enter a number of stones to take (1-3): 4 Invalid input. Please enter a valid number. Bob's turn. Enter a number of stones to take (1-3): 3 Current stone count: 6 Alice's turn. Enter a number of stones to take (1-3): 2 Current stone count: 4

Bob's turn. Enter a number of stones to take (1-3): 2

Alice's turn. Enter a number of stones to take (1-3): 2

Current stone count: 2

Alice wins the game!