**IPO chart:**

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| --- | --- | --- |
| Input: | Processing: | Output: |
| User input for player's last name, number of hits, and number of at-bats.  User input ends when Ctrl+Z is pressed. | Define a function calculateBattingAverage that calculates the batting average based on hits and at-bats. It handles the case where at-bats are zero to avoid division by zero.  Initialize the variable playerCount to keep track of the number of players entered.  Use a while loop to repeatedly ask the user for player information.  Read and store the player's last name, hits, and at-bats.  Calculate the batting average using the calculateBattingAverage function.  Display the last name and batting average for each player.  Update the player count.  End input when the user presses Ctrl+Z . | For each player, display the last name and batting average.  After processing all players, display the total number of players entered. |

**Code:**

def calculateBattingAverage(hits, atBats):

if atBats == 0:

return 0.0

return hits / atBats

playerCount = 0

try:

while True:

lastName = input("Enter player's last name (Ctrl+Z to stop): ")

hits = int(input("Enter number of hits: "))

atBats = int(input("Enter number of at-bats: "))

battingAverage = calculateBattingAverage(hits, atBats)

print(f"Last Name: {lastName}")

print(f"Batting Average: {battingAverage:.3f}\n")

playerCount += 1

except EOFError:

pass

print(f"Number of Players Entered: {playerCount}")