**IPO chart:**

|  |  |  |
| --- | --- | --- |
| Input: | Processing: | Output: |
| User input for quantity and price (provided until Ctrl+Z is pressed). | Define a function calculateTotal that takes quantity and price as input and returns the total. If the total is over $10,000.00, apply a 10% discount.  Initialize the variable extendedPriceSum to keep track of the sum of extended prices.  Use a while loop to repeatedly read user input for quantity and price and perform the following steps for each item:  Calculate the total using the calculateTotal function.  Display the quantity, price, and total.  Update the extendedPriceSum with the current total.  End input when the user presses Ctrl+Z . | Display the quantity, price, and total for each item.  Display the sum of extended prices after processing all items. |

**Code:**

def calculateTotal(quantity, price):

total = quantity \* price

if total > 10000.00:

total -= total \* 0.10

return total

extendedPriceSum = 0

try:

while True:

quantity = float(input("Enter quantity (Ctrl+Z to stop): "))

price = float(input("Enter price: $"))

total = calculateTotal(quantity, price)

print(f"Quantity: {quantity}")

print(f"Price: ${price:,.2f}")

print(f"Total: ${total:,.2f}\n")

extendedPriceSum += total

except EOFError:

pass

print(f"Sum of Extended Prices: ${extendedPriceSum:,.2f}")