**IPO chart:**

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| --- | --- | --- |
| Input: | Processing: | Output: |
| quantity: The quantity of items (user input).  price: The price per item (user input).  discountRate: The discount rate as a percentage (user input). | calculateDiscount(quantity, price, discountRate): A function that takes quantity, price, and discountRate as input parameters and calculates the discountAmount and discountedPrice. | discountAmount: The calculated discount amount.  discountedPrice: The calculated discounted price. |

**Code:**

def calculateDiscount(quantity, price, discountRate):

discountAmount = quantity \* price \* (discountRate / 100)

discountedPrice = quantity \* price - discountAmount

return discountAmount, discountedPrice

def main():

quantity = int(input("Enter quantity: "))

price = float(input("Enter price per item: "))

discountRate = float(input("Enter discount rate (%): "))

discountAmount, discountedPrice = calculateDiscount(quantity, price, discountRate)

print("\nInput values:")

print(f"Quantity: {quantity}")

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

print(f"Discount rate: {discountRate}%")

print("\nCalculated results:")

print(f"Discount amount: ${discountAmount:.2f}")

print(f"Discounted price: ${discountedPrice:.2f}")

if \_\_name\_\_ == "\_\_main\_\_":

main()