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# Assignment 1: Stock Profit Calculator
# Name: Gowhith Kanisetty
# SJSU ID: 017515641
def
       calculate_stock_profit(ticker, allotment,
                                                      final_price,
                                                                      sell_commission,
initial price,
                          buy_commission, tax_rate):
    # Calculate proceeds
   proceeds = allotment * final_price
    # Calculate cost breakdown
    total_purchase_price = allotment * initial_price
   capital_gain = proceeds - total_purchase_price - buy_commission - sell_commission
    tax_on_capital_gain = (tax_rate / 100) * capital_gain if capital_gain > 0 else 0
    # Total cost
         total_cost = total_purchase_price + buy_commission + sell_commission +
tax_on_capital_gain
    # Net profit
   net_profit = proceeds - total_cost
    # Return on investment (ROI)
   roi = (net_profit / total_cost) * 100 if total_cost > 0 else 0
    # Break-even price per share
   break_even_price = (total_cost - tax_on_capital_gain) / allotment
   # Output results
   print("\nPROFIT REPORT:")
   print(f"Ticker Symbol: {ticker}")
   print(f"Proceeds: ${proceeds:,.2f}")
   print(f"Cost: ${total_cost:,.2f}")
   print("\nCost details:")
           print(f"Total
                                              {allotment} × ${initial_price:.2f}
                         Purchase Price:
${total_purchase_price:,.2f}")
   print(f"Buy Commission: ${buy_commission:.2f}")
   print(f"Sell Commission: ${sell_commission:.2f}")
          print(f"Tax on
                            Capital Gain: {tax_rate}% of ${capital_gain:,.2f} =
${tax_on_capital_gain:,.2f}")
   print(f"\nNet Profit: ${net_profit:,.2f}")
   print(f"Return on Investment: {roi:.2f}%")
          print(f"To
                     break
                              even, you should have a
                                                              final
                                                                     share price
                                                                                     of:
${break_even_price:.2f}\n")
def main():
   print("Compute Your Profit:\n")
   ticker = input("Ticker Symbol: ")
   allotment = int(input("Allotment (number of shares): "))
    final_price = float(input("Final Share Price: "))
   sell_commission = float(input("Sell Commission: "))
    initial_price = float(input("Initial Share Price: "))
   buy_commission = float(input("Buy Commission: "))
    tax_rate = float(input("Capital Gain Tax Rate (%): "))
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main()