1. The input consists of quantity, price and discount rate. Use a function to compute the discount amount and discounted price. Then display these values in main along with the quantity and price. (The function should return both discount amount and discounted price).

Input	Process	Output
Qty	Get qty, price, discrate Call compute_disc Input: qty, price, discam Return/update: Discam, discprice Extprice = qty * price Discam = extprice * discrate Discprice = extprice - discamt	Qty Price Discamt Discprice
price		
Discrate	Display qty, price, discam, discprice	

2. Enter the student's last name and 3 exam scores. Use a function to compute the average and total points. This functions should return both total points and exam score. Display student last name, total points and average exam score.

Input	Process	Output
lastname	Get lastname, s1,s2,s3	
S1,s2,s3	Call computepoints Inputs s1, s2, s3 Return: total, avgscore Total = s1 + s2 +s3 Avgscore = total/3	Lastname Total avgscore
	Display lastname, total, avgscore	

3. Produce a sales report. Input salesperson last name and sales. Write a function that compute commission which is 10% for sales over $100, 000 and 5% for sales at or under $100,000. The function should also computer next year's target which is 5% of the sales. This function should return both commission and next year's target. Display salesperson name, commission and next year's target.

Input	Process	Output
lastname	Get lastname, sales	
sales	Call computecomsn Input sales, percent Return: com_amo, target Com_amo = sales * percent Target = sales * .05	Lastname Com_amo target
	Display lastname, com_amo, target	

4. Enter bowler last name, 3 game scores and handicap. Write a function to compute average score and average score with handicap. Back in main, display last name, average score and average score with handicap.

Input	Process	Output
lastname	Get lastname, gs1, gs2, gs3, hc	
Gs1, gs2, gs3	Call compute_avg Input gs1, gs2, gs3, hc Return: total, avg_score, avg_score_hc Total = gs1+ gs2 + gs3 Avg_score = total / 3 Avg_score_hc = total / 3 "Handicap"	Lastname Avg_score Avg_score_hc
hc		
	Display lastname, avg_score, avg_score_hc	

5. Allow the user to enter quantity of an item and unit price. Write a function to compute total (qty * unit price) and tax (7% of total). Demonstrate your knowledge of global variables by making total and tax global in scope. Display total and tax in main.

Input	Process	Output
qty	Get qty, unitprice	
Unitprice	Call computetotal Input qty, unitprice Return: Total, Tax Total = qty * unitprice Tax = total * .07	Total, tax
	Display total, tax	