Problem 1

INPUT	PROCESS	OUTPUT
- 5 variables to hold destination, miles, gallons, milesPerGallon, totalMiles, and	- While loop to continue the code until the user presses ctrl + z	Displays destinationDisplays miles travelled
tripCount - Asks and stores	- Divides miles by gallons to get milesPerGallon	- Displays gallons used
input for destination, miles to destination, and amount of gallons used	- Adds miles to total miles to get overall miles	Displays miles per gallonDisplays total miles
- Function to calculate miles per gallon	- Adds 1 to trip count to get overall trip count	travelled - Displays total number of trips

Problem 2

INPUT	PROCESS	OUTPUT
- 7 variables to hold lastName, jobCode, hoursWorked, pay, averagePay, totalPay, and	- While loop to continue the code until the user presses ctrl + z	 Displays last name Displays pay amount Displays total pay
entryCount - Asks and stores input for last name, job code, hours	- Calculates pay using the function to compile payrate and pay depending on jobCode and	 Displays total number of entries Displays average pay
worked, and pay amount	hoursWorked - Adds pay to total pay	
- Function to calculate pay	(overall pay)	
	- Adds 1 to entry count to count total (overall entry count)	

- Divides totalPay by entryCount to get averagePay	
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Problem 3

INPUT	PROCESS	OUTPUT
- 5 variables to hold lastName,	- While loop to continue the code	- Displays last name
creditsTaken, tuition, totalTuition, and studentCount	until the user presses ctrl + z	- Displays credits taken
- Asks and stores input for last name, and credits taken	 Using the function, multiplies creditsTaken by 250 to get tuition amount 	 Displays amount of tuition owed Displays total tuition
- Function to calculate tuition	- Adds tuition to totalTuition (overall)	- Displays number of students
	 Adds 1 count to studentCount to get total (overall) 	

Problem 4

INPUT	PROCESS	OUTPUT
- 8 variables to hold productCode, quantity, unitPrice,	- While loop to continue the code until the user	- Displays product code
shipping, extendedPrice, total,	presses ctrl + z	- Displays unit price
grandTotal, and entryCount	 Using the function, calculates unitPrice depending on 	- Displays shipping cost
 Asks and stores product code and quantity 	productCode	- Displays extended price

- 2 functions to calculate unitPrice	 Using the function, calculates shippingCost 	- Displays total amount
and shippingCost	depending on the productCode	- Displays total of all entries
	- Adds total to grandTotal (overall)	- Displays total number of entries
	- Adds 1 count to entryCount (overall)	

Problem 5

INPUT	PROCESS	OUTPUT
- 5 variables to hold, type of department, courseCode, labFee, totalLabFees, and courseCount	- While loop to continue the code until the user presses ctrl + z	Displays departmentDisplays course code
- Asks and stores input for type of department and course code	 Using the function, calculates labFee depending on department and course code 	 Displays lab fee Displays total lab fee Displays total number of courses
- Function to calculate labFee based off of type of department and course code	 Adds labFee to totalLabFees (overall) Adds 1 count to courseCount (overall) 	- Displays average lab fee
	 Divides totalLabFees by courseCount to get averageLabFee 	