

Problem 1:

Input:

- Allow the user to enter a quantity and price repeatedly until stopped (Ctrl+Z).
- For each input, receive the quantity and price.

Processing:

- Write a function to compute the total.
 - Receive the quantity and price.
 - Compute the total (quantity * price).
 - If the total is over \$10,000.00, apply a 10% discount.
 - Return the total.
- Display the quantity, price, and total for each input.
- Sum the extended prices.

Output:

- Display the quantity, price, and total for each input.
- Display the sum of all extended prices.

Problem 2:

Input:

- Allow the user to enter the player's last name, number of hits, and at bats repeatedly until stopped (Ctrl+Z).
- For each input, receive the last name, number of hits, and at bats.

Processing:

- Write a function to compute the batting average.
 - Receive the number of hits and at bats.
 - Compute the batting average (hits / at bats).
 - Return the batting average.
- Display the last name and batting average for each player.
- Count the number of players entered.

Output:

- Display the last name and batting average for each player.
- Display the count of the number of players entered.

Problem 3:

Input:

- Allow the user to enter the destination city, miles traveled, and gallons used for a trip repeatedly until stopped (Ctrl+Z).
- For each input, receive the destination city, miles traveled, and gallons used.

Processing:

- Write a function to compute miles per gallon.
 - Receive the miles traveled and gallons used.
 - Compute miles per gallon (miles traveled / gallons used).
 - Return miles per gallon.
- Display the destination city, miles, and miles per gallon for each trip.
- Count the number of entries made.

Output:

- Display the destination city, miles, and miles per gallon for each trip.
- Display the count of the number of entries made.

Problem 4:

Input:

- Allow the employee to enter last name, job code, and hours worked repeatedly until stopped (Ctrl+Z).
- For each input, receive the last name, job code, and hours worked.

Processing:

- Write a function to determine the pay rate.

- Receive the job code.
 - Return the rate of pay based on the job code (L: \$25/hr, A: \$30/hr, J: \$50/hr).
- Compute gross pay.
 - If hours worked is over 40, give time and a half for overtime.
- Display the last name and gross pay for each employee.
- Sum the total of all gross pay.

Output:

- Display the last name and gross pay for each employee.
- Display the total of all gross pay.

Problem 5:

Input:

- Allow the user to enter student last name, credit hours, and district code repeatedly until stopped (Ctrl+Z).
- For each input, receive the student last name, credit hours, and district code.

Processing:

- Write a function to compute tuition owed.
 - Receive credit hours and district code.
 - Return tuition owed based on the district code (I: \$250 per credit hour, O: \$550 per credit hour).
- Display the student name and tuition owed for each student.
- Sum the total of all tuition owed.

Output:

- Display the student name and tuition owed for each student.
- Display the total of all tuition owed.