

Graded Exercise

Sequential:

At the University of Palompon, every unit is worth P45 in enrollment fees. An additional 15% of this amount is paid in miscellaneous fees with a blanket fee of P200 regardless of the load. Write a program to input the number of UNITS a student is enrolled and output the TUTION FEE to be paid.

Conditional (if, switch-case):

A company selling household appliances gives commissions to its salesman determined by the kind of product sold as well as the sales amount.

Type 1: 7% of sale or 400, whichever is more.

Type 2: 10% of sale or 900, whichever is less.

Type 3: 12% of sale.

Type 4: P250, regardless of sale price.

Make a program that would input the TYPE of appliance sold (between 1-4) and the sale PRICE (a positive floating-point value), and output the COMMISSION that the salesman will receive.

Iterative (counter):

Take as input the student's grades of seven subjects and its corresponding unit taken in a semester. A student is considered failed if the average grade is less than 3.0. Compute the student's General Point Average (GPA) by multiplying the grade per subject by its corresponding unit, sum up the products and divide the sum by its total units. Print the computed average grade and whether the student "failed" or "passed".

Iterative (trailer record):

The goals scored in a soccer match may be input as a sequence of 1s and 2s terminated by 0. The number 1 would mean that team 1 made a goal and 2 would mean that team 2 made a goal. Thus the sequence 1 2 1 2 1 1 2 0 means that Team 1 made 4 goals and team 2 made 3 goals in all. Write a program that would input such sequence and output how many goals each team made and the result of the match ("Team 1 won", "Team 2 won", "Both tied"). Ensure that inputs are 0,1 and 2 only.

Array

Use a single-subscripted array to solve the following problem. A company pays its salespeople on a commission basis. The salespeople receive Php200 per week plus 9 percent of their gross sales for the week. For example, a salesperson who grosses Php3000 in sales in a week receives Php200 plus 9 percent of Php3000, or a total of Php470. Write a C program that determines how many of the 10 salespeople earned salaries which is more than Php500.