

## Programming Exercises 4

1. Write a program needed by the sales manager of The Henry Used Car Dealership. The program will determine the profit on any car sold. Input includes the sale price and actual purchase price for a car. The output is the profit, which is the sale price minus the purchase price.  
  
Revise the profit-determining program so that it runs continuously for any number of cars. The detail loop executes continuously while the sale price is not 0.
2. Write a program for the River Falls Homes Construction Company. Design a program that prompts the user for a lot number in the River Falls subdivision and data about the home to be built there, including number of bedrooms, number of bathrooms, and the number of cars the garage holds. Output is the price of the home, which is a \$50,000 base price plus \$17,000 for each bedroom, \$12,500 for each bathroom, and \$6,000 for each car the garage holds. The program accepts lot numbers continuously until 0 is entered.
3. Write a program to input integers, the program ends when user input 0. Print the minimum (different from 0) and maximum number (different from 0) among the input numbers.
4. Write a program to convert decimal to binary.
5. Write a program to represent a given integer as product of prime numbers.