

Intro to Python – Lesson 30

We will start today by completing the Homes program for the real estate agent from the last lesson plan. Use the following exercises for additional practise on creating data files. In each case set up the inputs – validations are not required but you can add a few for practise if you want.

Billy Bob Bike Rentals requires a program to process the bike rentals he has made for the day. Required are the invoice number (Start with 1358 – set up as a constant at the beginning of the program), the customer's name (must be entered), a phone number (must be entered and be 10 digits), a code for the type of bike rented (T for 12-Speed, M for Mountain, the number of bicycles rented (must be between 1 and 3), a credit card number, and the expiry date. No calculations are required at this point. Write the values to a file called Rentals.dat using comma separated values across a single line. Increment the invoice number by 1 and prompt the user if they want to enter another rental (Y / N).

Modern Movie Rentals wants a program designed that will allow them to add new movies they purchase to a data file called Movies.dat. Set up a constant for the Movie ID (Start with 10285), and allow the user to input the Movie name, the movie type - can only be one of "D" for Drama, "C" for Comedy, "M" for musical, or "H" for Horror. Once a valid type has been entered, the name of the type should appear next to the type. The movie rating should be entered - only as "G" for General, "P" for Parental Guidance, or "R" for Restricted, and finally the Rental cost - the lowest rental price for a movie is \$1.99 and the most expensive rental priced movie is \$8.99. Write the values to a file called Movies.dat using comma separated values across a single line. Display a message telling the user the movie has been saved. Increase the movie ID by one. Allow the program to repeat until the user enters "END" for the Movie ID.

Do you see a problem with these programs? End the program and start again adding a couple of new lines to the file. What happens to the Invoice Number and the Movie Number?

The question now is how do you suggest we can solve this problem?

See you at 1.