

QAP 5 – Jul 30 – Aug 4, 2023



- All Projects will be completed individually in this QAP. There are only 2 projects in this QAP – Python (reports) and JavaScript.
- Each project is to be submitted through the assignment portal by Friday, August 4 at 11:59 pm. Make sure to include your data file.
- Questions can be asked before any classes during the regularly scheduled times in the next two weeks.

Project 1 - Data Files and Reports

The **One Stop Insurance Company** now needs a program(s) to process the data file and create a couple of reports. Remember that the sample record appears as follows. Create a file – or use the one from the previous QAP that contains data like the following. Make sure there are at least 10-12 records in the file – that some payment options are Monthly and some payment options are Full – second last value in the file.

1944, 2023-03-10, John, Smith, 12 Main St., St. John's, NL, A1A8H4, 123-123-1234, 2, Y, N, Y, Full, 1329.00

Create the two reports below (two separate programs. The first is a detailed report and the second is an exception report.

1234567890123456789012345678901234567890123456789012345678901234567890

ONE STOP INSURANCE COMPANY
POLICY LISTING AS OF dd-Mon-yy

POLICY NUMBER	CUSTOMER NAME	POLICY DATE	INSURANCE PREMIUM	EXTRA COSTS	TOTAL PREMIUM
XXXX	XXXXXXXXXXXXXXXXXXXX	yyyy-mm-dd	\$#,###.##	\$#,###.##	\$#,###.##
		:			
		:			
XXXX	XXXXXXXXXXXXXXXXXXXX	yyyy-mm-dd	\$#,###.##	\$#,###.##	\$#,###.##
Total policies: ###			\$##,###.##	\$##,###.##	\$##,###.##

Insurance premium - this is the last value in each record. Calculate the extra costs as follows: If the user enters a Y for any of the options, the costs are \$130.00 per car for extra liability, \$86.00 per car for glass coverage, and \$58.00 per car for the loaner car option. All these values are added together for the total extra costs. The total premium is the insurance premium plus the total extra costs.

1234567890123456789012345678901234567890123456789012345678901234567890

ONE STOP INSURANCE COMPANY
MONTHLY PAYMENT LISTING AS OF dd-Mon-yy

POLICY NUMBER	CUSTOMER NAME	TOTAL PREMIUM	HST	TOTAL COST	MONTHLY PAYMENT
XXXX	XXXXXXXXXXXXXXXXXXXX	\$#,###.##	\$###.##	\$#,###.##	\$#,###.##
		:			
XXXX	XXXXXXXXXXXXXXXXXXXX	\$#,###.##	\$###.##	\$#,###.##	\$#,###.##
Total policies: ###		\$##,###.##	\$#,###.##	\$##,###.##	\$##,###.##

Include only the customers who choose to make payments monthly as the exception. The Total Premium is calculated as the last report – this is the insurance premium – the last value in the file plus the extra costs. HST is calculated at 15% on the Total Premium, and the total cost is the total premium plus the HST. Customers can pay for their insurance in full or monthly. Calculate the monthly payment by adding a processing fee of \$39.99 to the total cost and dividing by 12.

Project 2 – JavaScript

Create a disk file containing an array of JSON data. Read this file from disk and iterate through the whole array using the `forEach()` method for the array object. For each record in the JSON file display one or more of the fields of content to the browser console.