

QAP 3 – Jun 6 – 16, 2023



- Project 1 and 2 will be completed in your groups. Projects 3 and 4 will be completed individually.
- Projects are due Fri, Jun 16, 2023. It is due on Friday since the first Sprint will start on that weekend.
- Questions can be asked before any classes during the regularly scheduled times.

Project 1 – Scrum and Trello

Create a document that includes the following:

- Discuss the purpose of Scrum and Trello and how they work together to complete a project.
- Create a Trello board with the projects broken down into manageable parts – Have several cards for each project. Add a To-Do List with cards for each of the parts defined. Also add a List for each member of the group. As tasks are started or completed, move them around the board in the proper sections. NOTE: You can break down and include the Python project in your Trello, but the program is to be completed individually. Take 2-3 pictures of your Trello board during the week to show how cards moved during the project week.
- While creating the document, use as many of the features presented in the Word Primer as possible.

Project 2 – Google

Continue with the document above, on a new page, and complete the following. Find the answer to each of the following. Include the answer and search criteria(s) used.

- In what year(s) was Cabot Tower built? What was done with the surplus bricks/stone?
- What was the original name of Mickey Mouse?
- What is the current time in St. John's, NL and Sydney, Australia?
- What is the provincial bird, flower, and tree of NL?
- What is the depth of the Dead Sea?
- Who invented the Safety Pin? List other things he invented.
- What does the Praying Mantis do after mating?
- What are the capitals of Mongolia and Croatia?
- List 3 movies that starred Will Smith.
- Where did the tradition of the Christmas tree come from?

For each of the following, prepare a short paragraph defining the term. Use at least 2 sources for each. List the URL of the sources below each paragraph.

- AWS
- Aseptic Techniques
- ASCII
- Self Care
- Employment Equity

Project 3 - Python

Honest Harry owns a used car lot and would like a program to keep track of his sales. Follow good programming practise using Comments, Constants, and Spacing. The program will repeat until the user enters the word "END" for the Customer First Name. The invoice date is the current system date.

Input for the program will be the customer first name (must be entered – adjust to title case), the customer last name (must be entered – adjust to title case), the phone number (must be entered - must be 10 digits), the plate number (must be entered – must be 6 characters - convert to all caps – **BONUS:** entered in the format XXX999), the car make (ie: Toyota), the car model (ie: Corolla), the year (ie: 2018), the selling price (does not exceed \$50,000.00), the amount of the trade in (does not exceed the selling price), and the salespersons name. **NOTE:** Validation is only required on the fields as specified.

The program should calculate the price after trade, the licence fee, the transfer fee, the HST, Subtotal, and the total sales price. The price after trade is the selling price less the trade in amount. The licence fee is standard rate in NL of \$75.00 on cars up to and including \$5,000.00 and \$165.00 on cars over \$5,000.00. The transfer fee 1% of the selling price - if the selling price is more than \$20,000.00, an additional 1.6% luxury tax is calculated on the selling price and added to the transfer fee. The Subtotal is the Price after trade plus the License Fee plus the Transfer Fee. Taxes (HST) are calculated at 15% on the Subtotal. The total sales price is the subtotal plus the HST.

Display results based on the following guidelines: Customer name is the first initial and the last name, the second line is the street address, and the third line is the City, Province and Postal Code. Car Details are the Year, Make and Model – ie: 2014 Toyota Corolla. The program should create a Receipt ID for the sale in the form XX-XXX-XXXX where the first two characters are the customer initials, the middle 3 characters are the last 3 digits in the license plate number, and the final 4 characters are the last 4 digits of the phone number.

```

1          2          3          4          5          6          7
12345678901234567890123456789012345678901234567890123456789012345678
Honest Harry Car Sales                               Invoice Date: Month dd, yyyy
Used Car Sale and Receipt                           Receipt No:      XX-XXX-XXXX

Sold to:                                             Sale price:                $99,999.99
                                                    Trade Allowance:           $99,999.99
                                                    -----
X. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Price after Trade:         $99,999.99
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX License Fee:              $99,999.99
XXXXXXXXXXXXXXXXXXXXXXXXXXXX,XX XXXXXX Transfer Fee:            $99,999.99
                                                    -----
Car Details:                                         Subtotal:                  $99,999.99
                                                    HST:                      $99,999.99
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX -----
                                                    Total sales price:         $99,999.99
-----
Best used cars at the best prices!
```

Display the following payment schedule to the screen using a loop based on the number of years the customer will use to pay off the car. For each of 4 years, calculate the number of monthly payments (Years * 12), the financing fee at 39.99 per year, the total price as the total sales price plus the financing fee, and the monthly payment (The Total Price divided by the number of months). The first payment date is 30 days from the purchase date.

NOTE : your numbers will be different – these are just displayed as a sample. This will allow the user to decide on payment options.

1 2 3 4 5 6 7
12345678901234567890123456789012345678901234567890123456789012345678

| # Years | # Payments | Financing Fee | Total Price | Monthly Payment |
|---------|------------|---------------|-------------|-----------------|
| 1 | 12 | \$39.99 | \$12,838.00 | \$1,069.83 |
| 2 | 24 | \$78.98 | \$12,916.98 | \$538.22 |
| 3 | 36 | \$119.97 | \$12,957.97 | \$359.94 |
| 4 | 48 | \$159.96 | \$12,997.96 | \$270.79 |

Invoice date: dd-MON-yy First payment date: dd-MON-yy

Project 4 – Web Design

Use CSS and the Box Model to create the following page. Set the main box to 900px or 1000px width.

- Color for the top and bottom bars are gray. The text in the top bar is white and black as shown. Use a font that is like that shown.
- The blocks are dark blue with a white text. The text is a link to another page.
- The title on the top bar, the pictures, and the links can all be based on a topic of your choice – it does **not need to be wedding** based - but follow a theme.
- On this last bar on the bottom, add a ©message and social media links.
- Make up any text in the sections that start with “Lorem ipsum ...” in the bottom section.

