

## FinTech Unit 6 Homework: Grading Rubric

Criteria	Ratings			
<b>Dwelling Types Per Year</b> <ul style="list-style-type: none"> <li>Number of dwelling types per year calculated.</li> <li>Bar chart visualization of rental analysis results.</li> </ul>	<b>20 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 4 out of 4 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>19 &gt; 16 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 3 out of 4 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>16 &gt; 14 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed 2 out of 4 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>14 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 1 or none out of the 4 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Average Monthly Shelter Cost Toronto Per Year</b> <ul style="list-style-type: none"> <li>Average monthly shelter costs calculated for owned and rented dwellings for each year.</li> <li>Monthly average shelter cost per year visualized in line chart.</li> </ul>	<b>20 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 4 out of 4 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>19 &gt; 16 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 3 out of 4 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>16 &gt; 14 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed 2 out of 4 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>14 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 1 or none out of the 4 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Average House Value Per Year</b> <ul style="list-style-type: none"> <li><code>average_house_value</code> calculated for each year.</li> <li><code>average_house_value</code> per year visualized in line chart.</li> </ul>	<b>20 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 4 out of 4 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>19 &gt; 16 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 3 out of 4 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>16 &gt; 14 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed 2 out of 4 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>14 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 1 or none out of the 4 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Average Prices By Neighbourhood</b> <ul style="list-style-type: none"> <li>DataFrame created with mean house values by neighbourhood per year.</li> <li><code>average_house_value mean</code> visualized per year, neighbourhood dropdown selector added.</li> </ul>	<b>20 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 4 out of 4 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>19 &gt; 16 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 3 out of 4 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>16 &gt; 14 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed 2 out of 4 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>14 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 1 or none out of the 4 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Number of Dwelling Types per Year.</b> <ul style="list-style-type: none"> <li>Dwelling types per year visualized in each neighbourhood.</li> </ul>	<b>15 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 4 out of 4 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>14 &gt; 11 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 3 out of 4 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>11 &gt; 9 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed 2 out of 4 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>9 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 1 or none out of the 4 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Top 10 Most Expensive Neighbourhoods</b> <ul style="list-style-type: none"> <li>Mean house value for each neighbourhood calculated.</li> <li>Mean house value sorted for top 10 most expensive neighbourhood on average.</li> <li>Results plotted as a bar chart.</li> </ul>	<b>15 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 4 out of 4 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>14 &gt; 11 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 3 out of 4 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>11 &gt; 9 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed 2 out of 4 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>9 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 1 or none out of the 4 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Neighbourhood Map</b> <ul style="list-style-type: none"> <li>Interactive map with average prices per neighbourhood.</li> </ul>	<b>15 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 2 out of 2 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>14 &gt; 11 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 1 out of 2 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>11 &gt; 9 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed fewer than 1 out of 2 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>9 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 0 out of 2 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Dashboard</b> <ul style="list-style-type: none"> <li>Interactive dashboard encompassing each functional visualization.</li> </ul>	<b>15 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 2 out of 2 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>14 &gt; 11 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 1 out of 2 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>11 &gt; 9 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed fewer than 1 out of 2 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>9 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 0 out of 2 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>
<b>Coding Conventions/Formatting</b>	<b>10 Points Mastery</b> <ul style="list-style-type: none"> <li>Imports are at the top of the file, just after any module comments and docstrings, and before module globals and constants.</li> <li>Function names are lowercase, with words separated by underscores</li> <li>Variable names follow the same convention as function names.</li> <li>Code follows (DRY) principals, no repetition, maintainable and highly reusable code.</li> </ul>	<b>9 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Variable names are specific and descriptive of the information held by the variable</li> <li>Imports are within the top of file</li> </ul>	<b>8 Points Progressing</b> <ul style="list-style-type: none"> <li>Code lacks proper indentation and length convention               <ul style="list-style-type: none"> <li>Limit all lines to a maximum of 79 characters.</li> </ul> </li> <li>Variable names are generic and not descriptive of the information held by the variable</li> <li>Imports and files are located in a non-standard location</li> </ul>	<b>8 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Code is excessively lengthy</li> <li>Variable names are missing or lacking any descriptive information</li> <li>Import and files are not loaded</li> </ul>
<b>Deployment/Submission</b>	<b>10 Points Mastery</b> <ul style="list-style-type: none"> <li>Repository cloned to local machine</li> <li>Files added to the repo via the command line</li> <li>Appropriate commit messages</li> </ul>	<b>9 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Repository cloned to local machine</li> <li>Files added to repo via the command line</li> </ul>	<b>8 Points Progressing</b> <ul style="list-style-type: none"> <li>Repository created on GitHub</li> <li>Files added manually on GitHub</li> </ul>	<b>8 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>No Submission</li> <li>Submission via incorrect format</li> </ul>
<b>Documentation/Comments</b>	<b>10 Points Mastery</b> <ul style="list-style-type: none"> <li>Code is well commented with concise, relevant notes</li> </ul>	<b>9 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Code is commented and mostly understandable to an outside user</li> </ul>	<b>8 Points Progressing</b> <ul style="list-style-type: none"> <li>Code has comments, but they are not understandable to an outside user</li> </ul>	<b>8 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>Code is not commented</li> </ul>
<b>Cost Analysis (Optional Challenge)</b> <ul style="list-style-type: none"> <li>Bar chart of average house values for all Toronto neighbourhood per year.</li> <li>Sunburst chart created and analysis conducted of the most expensive neighbourhoods in Toronto per year.</li> <li>Both charts added to interactive dashboard created for each visualization of cost analysis.</li> </ul>	<b>30 Points Mastery</b> <ul style="list-style-type: none"> <li>Completed 3 out of 3 requirements</li> <li>Code runs without error and produces the assigned results</li> <li>Code accounts for all possible scenarios</li> <li>Code is free of bugs</li> </ul>	<b>20 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>Completed 2 out of 3 of requirements</li> <li>Code runs without error</li> <li>Code produces results as expected 80% of the time</li> </ul>	<b>10 Points Progressing</b> <ul style="list-style-type: none"> <li>Completed 1 out of 3 requirements</li> <li>Code runs without error</li> <li>Code produces results, but not necessarily the correct results</li> </ul>	<b>0 Emerging</b> <ul style="list-style-type: none"> <li>Completed 0 out of 3 requirements</li> <li>No submission</li> <li>Code runs with error</li> </ul>

TOTAL POINTS