# Assignment 2

|  |  |  |  |
| --- | --- | --- | --- |
| Introduction | | | |
| **Name** | Kee Chong Wei | | |
|  | | | | |
| Prior Experience with AI Tools | | | | |
| *If you used any Gen AI in this assignment, please list them in the table below to indicate if you had prior experience using them.*   |  |  | | --- | --- | | *Gen AI* | *Prior Experience* | | *NIL* | *Yes / No* | | *NIL* | *Yes / No* | | *NIL* | *Yes / No* | | *NIL* | *Yes / No* | | | | | |
|  |  |  |  |

|  |
| --- |
| **F&B Recommendation maximum 350 words** |
| *Comment and self-reflect on your journey towards achieving two out of the four assignment criteria: correctness, thoroughness, user-friendliness, and efficiency & reusability.*  Thoroughness  I made sure to cleanse the inputs to the **Keyword-Based Search**. In particular, whether capitalisation or additional whitespace was used when inputting ‘And’ or ‘Or’, hence, used the .lstrip(), .rstrip() and .capitalise() methods to ensure that regardless of these factors, the function would run as intended.  Additionally, I added checks to ensure that the input of ‘Type Of Food’ would not be empty. If the program detects a null input, it would automatically prompt for further input from the user. In the same vein, I implemented similar checks to ensure that the maximum meal price in **Price-Based Search** would be greater or equal to 0and the number of nearest canteens in **Location-Based Search** would be greater or equal to 1.  Efficiency & Reusability  When I initially tackled the assignment, there was a lot of repetition of code. Especially when defining the ‘AND’ and ‘OR’ **Keyword-Based Search**, which is also used in the **Price-Based Search**. Eventually, when optimising the code, I realised that defining a distinct function for when an ‘AND’ or ‘OR’ is used would help to reduce this repetition.  Correctness  Initially, I was content submitting **Location-Based Search** to output *k* nearest canteens to each user. However, upon further consideration of practical usage of the search function, I deduced that it would provide more value if it were to generate a list of nearest canteens to both users. Hence, I eventually decided to code the **Location-Based Search** to output *k* nearest canteens to **both users** by taking the midpoint between both users as a reference point to calculate proximity to both users, then finding the distance to each individual user.  *If you used any Gen AI for this assignment, please list them in the table and answer the questions below.*   |  |  |  | | --- | --- | --- | | **Gen AI** | **Purpose**  (e.g., design, development, debugging) | **Shared link** | | NIL | NIL | NIL | | NIL | NIL | NIL | | NI: | NIL | NIL |   *How did you use the Gen AIs in the development of the Python program?*  *Did you encounter any challenges or limitations when using the Gen AIs?* |
| Reflection on Use of Gen AIs | |
| **maximum 100 words** | |
| *Please provide a reflection on your experience using Gen AI tools to complete this assignment.*  *Guiding Questions:*  *What key interactions or moments did the Gen AIs significantly influenced the direction or outcome of your task?*  *Did Gen AIs work as you expected?*  *How likely are you to use Gen AIs for similar tasks in the future?*  I DID NOT USE GEN AI TOOLS TO COMPLETE OR ASSIST ME IN COMPLETION OF THIS ASSIGNMENT. | |