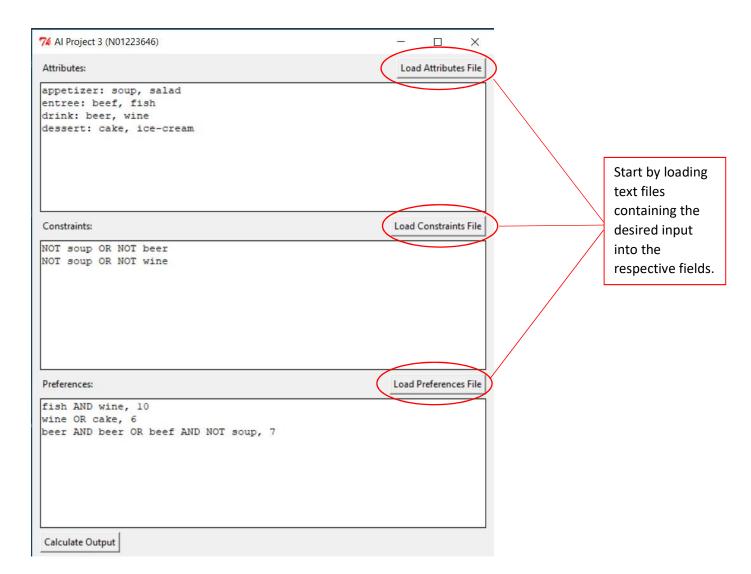
Michael Wilson (N01223646) Al Project 3

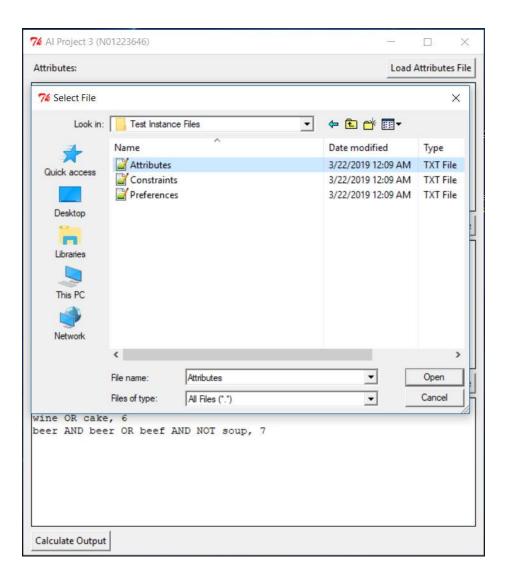
This is how the program looks when you start it.

To begin you can either manually enter the attributes, constraints, and preferences, or you can load each field with pre-written files.



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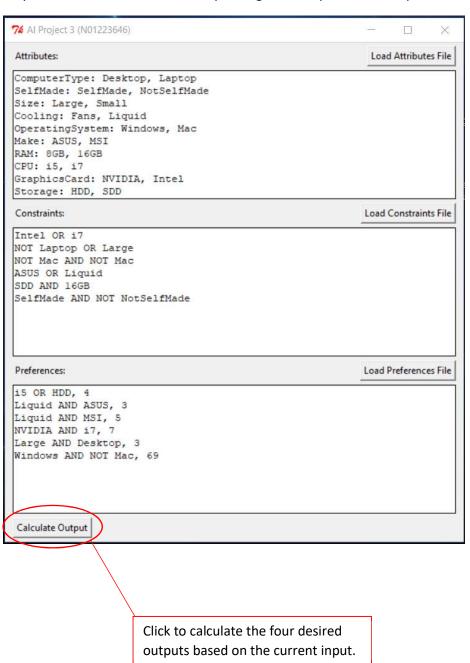
This dialog box will appear and prompt you to select a file. Choose the desired file and click "Open."



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Here the program is loaded with my test instance.

Next you will click "Calculate Output" to generate the four desired outputs of the project. The program may take some time to calculate depending on the input. Please be patient.



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Once the calculations are made, the four outputs will be displayed in a separate window. In this case, these outputs correspond to my test instance as shown previously.

```
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                                                                                                                                                                                                                                                                                                          Satisfiable
TWO OBJECTS:
 {Desktop, SelfMade, Small, Fans, Windows, ASUS, 16GB, i7, NVIDIA, SDD, (3)} <-- {Desktop, SelfMade, Large, Liquid, Windows, ASUS, 16GB, i7, Intel, SDD, (7)}
OPTIMAL OBJECT:
{Desktop, SelfMade, Small, Liquid, Windows, ASUS, 16GB, 17, Intel, SDD, (3)}
ALL OPTIMAL OBJECTS:
{Desktop, SelfMade, Small, Liquid, Windows, ASUS, 16GB, 17, Intel, SDD, (3)}
{Desktop, SelfMade, Small, Fans, Windows, ASUS, 16GB, 17, Intel, SDD, (3)}
(Desktop, SelfMade, Small, Liquid, Windows, MSI, 16GB, 17, Intel, SDD, (3) } (Desktop, SelfMade, Small, Liquid, Windows, ASUS, 16GB, 15, Intel, SDD, (3) } (Desktop, SelfMade, Small, Liquid, Windows, MSI, 16GB, 15, Intel, SDD, (3) }
(Desktop, SelfMade, Small, Fans, Windows, ASUS, 16GB, 15, Intel, SDD, (3) } 
(Desktop, SelfMade, Small, Liquid, Windows, ASUS, 16GB, 17, NVIDIA, SDD, (3))
 (Desktop, SelfMade, Small, Fans, Windows, ASUS, 16GB, 17, NVIDIA, SDD, (3))
(Desktop, SelfMade, Large, Liquid, Windows, ASUS, 166B, 17, NVIDIA, SDD, (3)) (Desktop, SelfMade, Large, Liquid, Windows, MSI, 166B, 17, NVIDIA, SDD, (3)) (Desktop, SelfMade, Small, Liquid, Windows, MSI, 166B, 17, NVIDIA, SDD, (3)) (Laptop, SelfMade, Large, Liquid, Windows, ASUS, 166B, 17, Intel, SDD, (3)) (Laptop, SelfMade, Large, Fans, Windows, ASUS, 166B, 17, NVIDIA, SDD, (3)) (Laptop, SelfMade, Large, Liquid, Windows, ASUS, 166B, 17, NVIDIA, SDD, (3))
(Laptop, SelfMade, Large, Fans, Windows, ASUS, 16GB, 17, NVIDIA, SDD, (3)) 
{Laptop, SelfMade, Large, Liquid, Windows, ASUS, 16GB, 15, Intel, SDD, (3)} 
{Laptop, SelfMade, Large, Fans, Windows, ASUS, 16GB, 15, Intel, SDD, (3)}
(Laptop, SelfMade, Large, Liquid, Windows, MSI, 16GB, i7, Intel, SDD, (3)) {Laptop, SelfMade, Large, Liquid, Windows, MSI, 16GB, i7, NVIDIA, SDD, (3)}
 (Laptop, SelfMade, Large, Liquid, Windows, MSI, 16GB, i5, Intel, SDD, (3))
```



The relationship between two objects is denoted by:

- --> Meaning the right object is preferred over the left.
- <-- Meaning the left object is preferred over the right.
- Meaning the objects are equivalent.

[~] Thank you.