3 Recipes generated by the program

1. Generated recipe: white sugar honey

Ingredients:

[['flour', 'amount: 0.5 cup'],
 ['butter', 'amount: 0.5 cup'],
 ['baking soda', 'amount: 0.04 tsp'],
 ['brown sugar', 'amount: 4.15 cup'],
 ['egg', 'amount: 6 eggs'],
 ['honey', 'amount: 0.91 tbsp'],

['white sugar', 'amount: 2.6 cup'], ['vanilla extract', 'amount: 2 tsp'],

['yoghurt', 'amount: 0.25 cup']]

2. Generated recipe: vanilla extract cocoa powder

Ingredients:

[['flour', 'amount: 0.5 cup'], ['butter', 'amount: 0.5 cup'],

['baking soda', 'amount: 0.25 tsp'],

['egg', 'amount: 2 eggs'], ['salt', 'amount: 0.25 tsp'],

['white sugar', 'amount: 1 cup'], ['vanilla extract', 'amount: 1 tsp'],

['cocoa powder', 'amount: 3 tbsp'],

['honey', 'amount: 1 tbsp'],

['powdered sugar', 'amount: 1 cup']]

3. Generated recipe: vanilla extract cocoa powder

Ingredients:

[['flour', 'amount: 0.5 cup'],

['butter', 'amount: 0.11 cup'],

['baking soda', 'amount: 0.09 tsp'],

['egg', 'amount: 2 eggs'], ['salt', 'amount: 0.81 tsp'],

['white sugar', 'amount: 0.54 cup'], ['vanilla extract', 'amount: 1 tsp'], ['cocoa powder', 'amount: 0.25 cup']]

Example output after implementation described in Future work

"What do you want to make?"

```
"1. try something new? (
--->switch to the fitness function that give more weight on the novelty_score
2. make something that is guaranteed to be successful?
--->switch to the fitness function that give more weight on the receipe_similarity
3. choose the recipe welcomed by most of users?
--->switch to the fitness function that give more weight on the class_ratio and predicted star rating getting from MLP"

<Generated recipe: white sugar honey >
Calories: 230
predicted star rating: 4.5 star
```

```
Calories: 230
predicted star rating: 4.5 star
Ingredients:
'base':[
  ['flour', 'amount: 0.5 cup'],
  ['butter', 'amount: 0.5 cup'],
  ['egg', 'amount: 6 eggs']]
'rising':
  ['baking soda', 'amount: 0.04 tsp'],
'flavour':[
  ['brown sugar', 'amount: 4.15 cup'],
  ['honey', 'amount: 0.91 tbsp'],
  ['white sugar', 'amount: 2.6 cup'],
  ['vanilla extract', 'amount: 2 tsp'],
  ['yoghurt', 'amount: 0.25 cup']]
]
```