RECIPE BOOK

A personalised app containing all your low-calories recipes

Required tasks

1. Ask the user to enter an ingredient
2. Create a function to make a request to the Edamam API with the required ingredient
3. Get the returned recipes from the API response
4. Display the recipes for each search result

Basic search with Edamam API

Enter ingredient n.1: almond

Output:

Almond Cookies
http://www.lottieanddoof.com/2011/12/day-10-almond-cookies/
1 pound almond paste
1 1/2 tablespoons pistachio paste (optional)
1/2 cup granulated sugar
2 large egg whites

Almond Paste
https://food52.com/recipes/28464-almond-paste
1 1/2 cups blanched almonds
1 1/2 cups confectioner's sugar
1 egg white
1 teaspoon almond extract

Extension of the project

1. Ask the user additional questions to decide which recipe they should choose
    a. enter more than 1 ingredient
    b. random choice among various health options (e.g. gluten-free or dairy-free)
2. Order the results by calories
3. Save recipe with the lowest amount of calories

Additional choices for the user

```
n_ingredients = int (input (“How many ingredients do you want to use?”))
meal_preference = input (“Do you have a preferred meal? Type y or n: ”)
if meal_preference == “y”:
    meal_type = input (“Are you looking for breakfast, lunch or a dinner recipe? ”)
else:
  meal_type = random.choice( [“breakfast” , “lunch” , “dinner”] )
health=random.choice( [“dairy-free” , “gluten-free”] )
    i = 1
    ingredient_list = []
    while i <= n_ingredients :
        ingredient = input (“Enter ingredient n.” + str(i) + “ : ” )
        ingredient_list.append(ingredient)
        i += 1
results = web_search(ingredient,meal_type,health)
```

Ordering the results by calories

```
resulting_recipes=[]
for i in results :
        recipe = i[“recipe”]
        resulting_recipes.append(recipe[“label”])
        resulting_recipes.append(int(recipe[“calories”]))
        resulting_recipes.append(recipe[“url”])
        resulting_recipes.append(meal_type)
 N = 4
 subList = [resulting_recipes[n:n+N] for n in range(0, len(resulting_recipes), N)]
 ordered_list = sorted(subList, key=lambda x: x[1], reverse=False)
```

Output

Strawberry-Almond Smoothie
Calories: 255
http://www.eatingwell.com/recipes/strawberry_almond_smoothie.html
breakfast

Cherry Vanilla Almond Smoothie Recipe
Calories:273
http://www.seriouseats.com/recipes/2013/07/cherry-vanilla-almond-smoothie-vegan-dairy-free-drink.html
breakfast

Almond, banana & passion fruit smoothie
Calories:284
http://www.jamieoliver.com/recipes/fruit-recipes/almond-banana-passion-fruit-smoothie/
breakfast

Saving the recipe with the lowest amount of calories

```
with open('recipe_book.txt' , 'a' ) as text_file :
    for element in ordered_list[0] :
        recipe_book = str(element) + "\n"
        text_file.write(recipe_book)
    for ingredient in recipe["ingredientLines"] :
        recipe_book2 = ingredient  + "\n"
        text_file.write(recipe_book2)
```

Strawberry-Almond Smoothie
255
http://www.eatingwell.com/recipes/strawberry_almond_smoothie.html
breakfast
2 cups unsweetened almond milk
1/2 cup creamy raw almond butter
2 tablespoons raw honey
1 (10-ounce) package frozen cherries

Thank you!