

SANDWICH ORDERING SYSTEM

Step 1

The sandwiches offered :

1.Mahvash's Veggie Sandwich

Bread : keto

Spread: pesto

Bread Choices : wheat, rye, italian

Spread Choices : mayo, butter, mustard

Usual Ingredients : carrots, tomatoes, cucumbers

Options : grilled, salt and pepper, cut in half

Exceptions : hold the mayo, no onions, no pickles

2.Beef Club Sandwich

Bread : white

Spread: cream

Bread Choices : wheat, rye, italian

Spread Choices : mayo, butter, mustard

Usual Ingredients : beef, tomatoes, lettuce

Options : grilled, salt and pepper, cut in half

Exceptions : hold the mayo, no onions, no pickles

3.Special Chicken Sandwich

Bread : french

Spread: ketchup

Bread Choices : wheat, rye, italian

Spread Choices : mayo, butter, mustard

Usual Ingredients : chicken, cheese, lettuce

Options : grilled, salt and pepper, cut in half

Exceptions : hold the mayo, no onions, no pickles

4.Baked Cheese Sandwich

Bread : brown

Spread: avocado

Bread Choices : wheat, rye, italian

Spread Choices : mayo, butter, mustard

Usual Ingredients : cheese, jalapeños, tomatoes

Options : grilled, salt and pepper, cut in half

Exceptions : hold the mayo, no onions, no pickles

Step 2

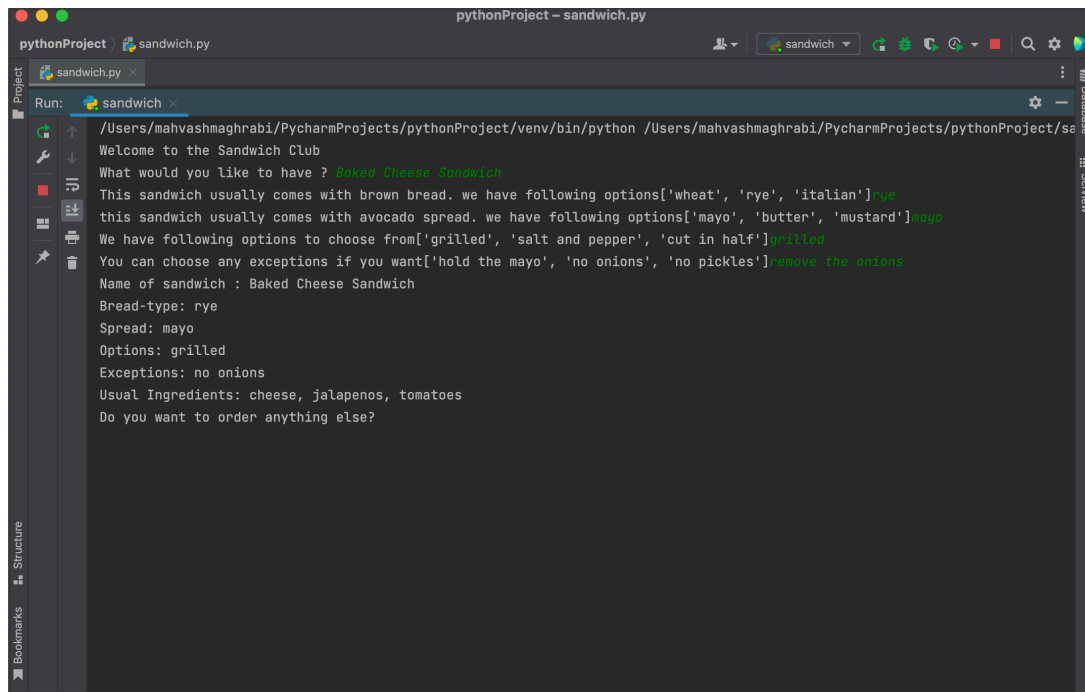
Terms treated as similar :

hold the mayo = no mayonnaise

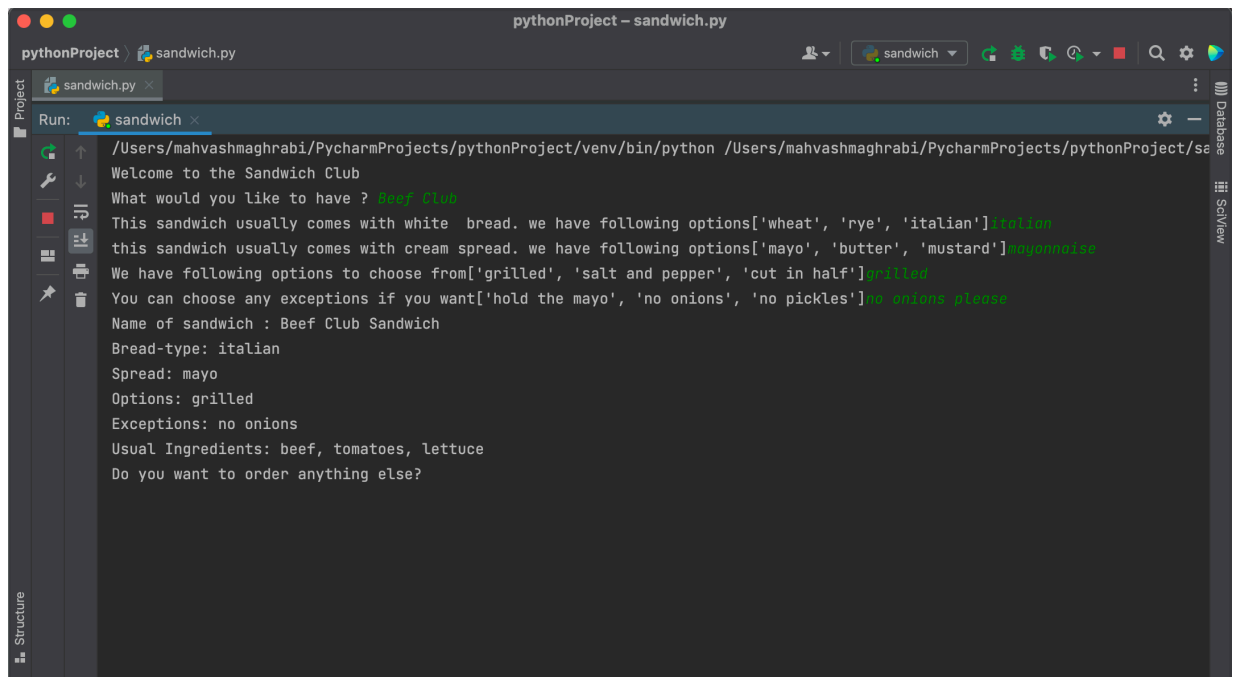
no onions = remove the onions

no pickles = do not add pickles

mayonnaise = mayo



```
pythonProject - sandwich.py
sandwich.py
Run: sandwich
/Users/mahvashmaghrabi/PycharmProjects/pythonProject/venv/bin/python /Users/mahvashmaghrabi/PycharmProjects/pythonProject/sa
Welcome to the Sandwich Club
What would you like to have ? Baked Cheese Sandwich
This sandwich usually comes with brown bread. we have following options['wheat', 'rye', 'italian'] we
this sandwich usually comes with avocado spread. we have following options['mayo', 'butter', 'mustard'] mayo
We have following options to choose from['grilled', 'salt and pepper', 'cut in half'] grilled
You can choose any exceptions if you want['hold the mayo', 'no onions', 'no pickles'] remove the onions
Name of sandwich : Baked Cheese Sandwich
Bread-type: rye
Spread: mayo
Options: grilled
Exceptions: no onions
Usual Ingredients: cheese, jalapenos, tomatoes
Do you want to order anything else?
```



```
pythonProject - sandwich.py
pythonProject \ sandwich.py
Run: sandwich x
/Users/mahvashmaghrabi/PycharmProjects/pythonProject/venv/bin/python /Users/mahvashmaghrabi/PycharmProjects/pythonProject/sa
Welcome to the Sandwich Club
What would you like to have ? Beef Club
This sandwich usually comes with white bread. we have following options['wheat', 'rye', 'italian']italian
this sandwich usually comes with cream spread. we have following options['mayo', 'butter', 'mustard']mayo
We have following options to choose from['grilled', 'salt and pepper', 'cut in half']grilled
You can choose any exceptions if you want['hold the mayo', 'no onions', 'no pickles']no onions please
Name of sandwich : Beef Club Sandwich
Bread-type: italian
Spread: mayo
Options: grilled
Exceptions: no onions
Usual Ingredients: beef, tomatoes, lettuce
Do you want to order anything else?
```

Step 3

I have used Python to implement the following Assignment. I have used Regex to match the patterns. I have created one file sandwich.py. It can simply be run using the filename in cmd(python sandwich.py) or directly in the PyCharm IDE. It asks what would you like to have and you can simply choose and enter the sandwich name. You can view the menu by simply entering menu in the console. You can enter from the given choices of breads, spreads, options and exceptions and if not given it will ask you and if empty space is entered it will automatically take the default values wherever required.

Step 4

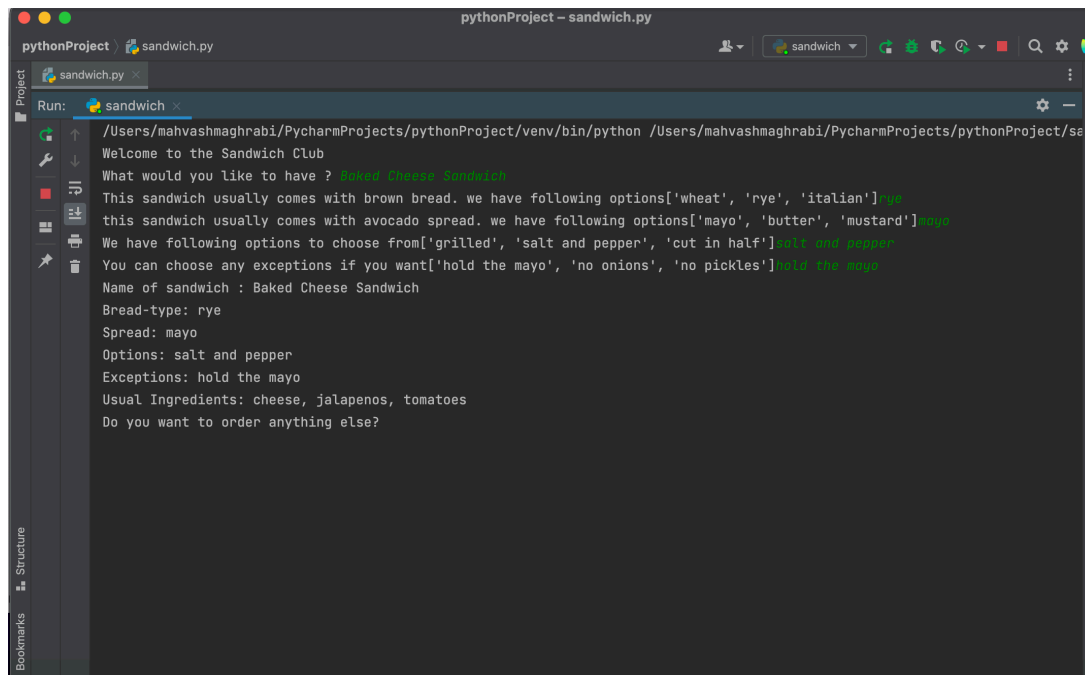
Example 1 : Complete Details were given

```
pythonProject - sandwich.py
pythonProject > sandwich.py
Run: sandwich
/Users/mahvashmaghrabi/PycharmProjects/pythonProject/venv/bin/python /Users/mahvashmaghrabi/PycharmProjects/pythonProject/sa
Welcome to the Sandwich Club
What would you like to have ? Mahvash's Veggie with rye and butter cut in half no onions please
Name of sandwich : Mahvash's Veggie Sandwich
Bread-type: rye
Spread: butter
Options: cut in half
Exceptions: no onions
Usual Ingredients: carrots, tomatoes, cucumbers
Do you want to order anything else?
Process finished with exit code 0
```

Example 2 : Partial details were given

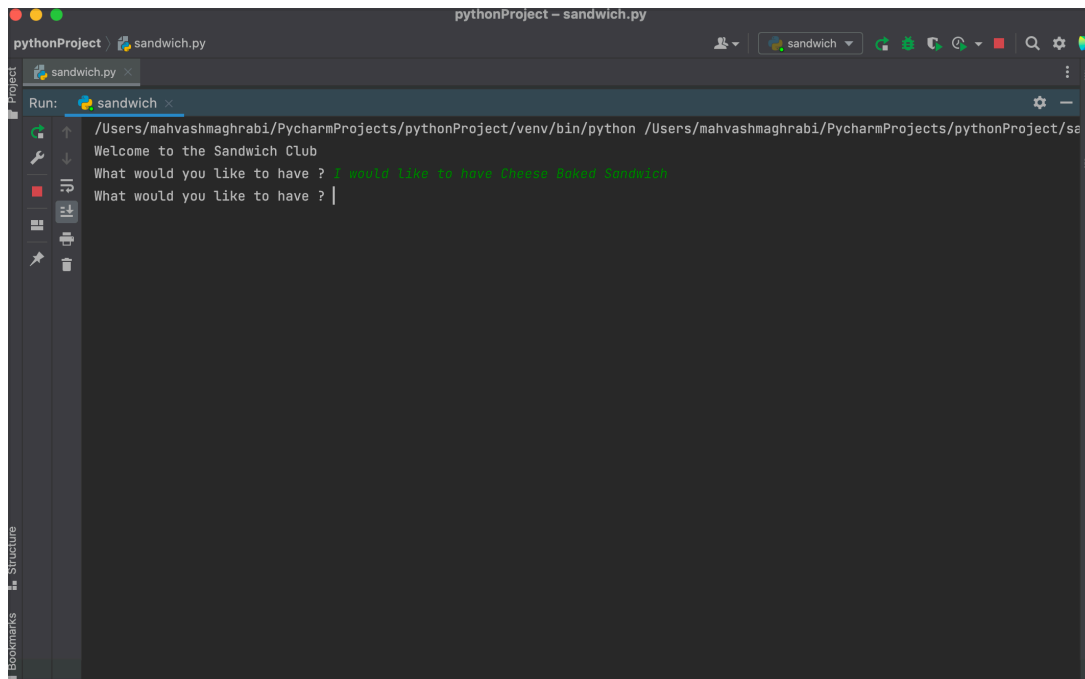
```
pythonProject - sandwich.py
pythonProject > sandwich.py
Run: sandwich
/Users/mahvashmaghrabi/PycharmProjects/pythonProject/venv/bin/python /Users/mahvashmaghrabi/PycharmProjects/pythonProject/sa
Welcome to the Sandwich Club
What would you like to have ? Beef Club Sandwich with Italian bread please
this sandwich usually comes with cream spread. we have following options['mayo', 'butter', 'mustard']
We have following options to choose from['grilled', 'salt and pepper', 'cut in half']
You can choose any exceptions if you want['hold the mayo', 'no onions', 'no pickles']
Name of sandwich : Beef Club Sandwich
Bread-type: italian
Spread: mayo
Options: grilled
Exceptions: no onions
Usual Ingredients: beef, tomatoes, lettuce
Do you want to order anything else?
```

Example 3 : No details were given only the name od sandwich was mentioned



```
pythonProject - sandwich.py
pythonProject - sandwich.py
Run: sandwich
/Users/mahvashmaghrabi/PycharmProjects/pythonProject/venv/bin/python /Users/mahvashmaghrabi/PycharmProjects/pythonProject/sandwich.py
Welcome to the Sandwich Club
What would you like to have ? Baked Cheese Sandwich
This sandwich usually comes with brown bread. we have following options['wheat', 'rye', 'italian']rye
this sandwich usually comes with avocado spread. we have following options['mayo', 'butter', 'mustard']mayo
We have following options to choose from['grilled', 'salt and pepper', 'cut in half']salt and pepper
You can choose any exceptions if you want['hold the mayo', 'no onions', 'no pickles']hold the mayo
Name of sandwich : Baked Cheese Sandwich
Bread-type: rye
Spread: mayo
Options: salt and pepper
Exceptions: hold the mayo
Usual Ingredients: cheese, jalapenos, tomatoes
Do you want to order anything else?
```

Example 4 : Jumbled up the sandwich name hence the program did not proceed further. Gave a condition where it asks the details again if anything goes wrong.



```
pythonProject - sandwich.py
pythonProject - sandwich.py
Run: sandwich
/Users/mahvashmaghrabi/PycharmProjects/pythonProject/venv/bin/python /Users/mahvashmaghrabi/PycharmProjects/pythonProject/sandwich.py
Welcome to the Sandwich Club
What would you like to have ? I would like to have Cheese Baked Sandwich
What would you like to have ? |
```

Step 5

Easiest part of the system was deciding on the menu the breads, spreads and options that should be offered before going into programming. Understanding and building the logic using regex was a difficult task.

This assignment helped me learn, understand and use regex and made my python programming skills more strong.