

In [1]:

```
import random
import re
```

In [2]:

```
class Rulebot:
    negative_res = ('no','nah','nope','sorry')
    exit_commands = ('quit','leave','exit','goodbye','later','bye')
    random_question = (
        "what would you like to have?",
        "Do you wanna have any drinks",

    )
    def __init__(self):
        self.alienbabble = {
            'food_available': r'.*\s*food.*',
            'dessert_available': r'why\dessert.*',
            'drinks_available': r'.*\s*drinks.*',
            'get_bill': r'.*\s*bill.*',
            'thank_you': r'.*\s*thank.*'
        }

    def greet(self):
        self.name = input("what is your name ?\n")
        will_help = input(
            f"Hi {self.name}, I am bot.I will be your server in this restuarent.\n")
        if will_help in self.negative_res:
            print("have a great day!")
            return
        self.chat()

    def make_exit(self, reply):
        for command in self.exit_commands:
            if reply == command:
                print("have a nice day")
                return True

    def chat(self):
        reply = input(random.choice(self.random_question)).lower()
        while not self.make_exit(reply):
            reply = input(self.match_reply(reply))
            if reply in self.negative_res:
                print("have a great day!")
            elif reply in self.exit_commands:
                print("have a great day!")

    def match_reply(self, reply):
        for intent, regex_pattern in self.alienbabble.items():
            found_match = re.match(regex_pattern, reply)
            if found_match and intent == 'food_available':
                return self.food_available()
            elif found_match and intent == 'dessert_available':
                return self.dessert_available()
            elif found_match and intent == 'drinks_available':
                return self.drinks_available()
            elif found_match and intent == 'get_bill':
                return self.get_bill()
            elif found_match and intent == 'thank_you':
                return self.thank_you()

        if not found_match:
            return self.no_match_intent()
    def food_available(self):
        responses = ("We have Idly, Dosa, Vada, Chapathi, Poori, Pongal, Pasta, Bread",
            "We have Rice, Chicken Biryani, Mutton Biryani, Chicken Curry, Sar")
        return random.choice(responses)

    def dessert_available(self):
        responses = ("We have Vanilla, Chocolate, ButterScotch Icecreams\n","We have C")
        return random.choice(responses)

    def drinks_available(self):
        responses = ("We have wine\n", "We have cool drinks\n")
        return random.choice(responses)

    def get_bill(self):
        responses = ("Here is your bill\n")
        return responses
    def thank_you(self):
        responses = ("Have a great day!\n")
        return responses

    def no_match_intent(self):
        responses = ( "Please tell me more.\n","tell me more!\n","I see.Can you elaborate")
        return random.choice(responses)
```

In []:

```
bot = Rulebot()
bot.greet()
```

In []: