Name: Rohit Vilas Patil
Roll No. 31353
Assignment No. B5
ChatBot Application

Bot.py

```python
from chatterbot import ChatBot
from chatterbot.trainers import ListTrainer
from chatterbot.trainers import ChatterBotCorpusTrainer

chatbot = ChatBot(name = 'ChatPot',
    read_only = True,
    logic_adapters = [
        'chatterbot.logic.MathematicalEvaluation',
        'chatterbot.logic.BestMatch'
        ] )
corpus_trainee = ChatterBotCorpusTrainer(chatbot)
corpus_trainee.train('chatterbot.corpus.english')

trainer = ListTrainer(chatbot)
trainer.train([
    "Hi",
    "Welcome, friend 🤗",
])
trainer.train([
    "Are you a plant?",
    "No, I'm the ChatPot below the plant!",
])

small_convo = [
    'Hi there!',
    'Hi',
    'How do you do?',
    'How are you?',
    'I\'m cool.',
```

```python
    'Always cool.',
    'I\'m Okay',
    'Glad to hear that.',
    'I\'m fine',
    'I feel awesome',
    'Excellent, glad to hear that.',
    'Not so good',
    'Sorry to hear that.',
    'What\'s your name?',
    ' I\'m ChatPot. Ask me a math question, please.'
    ]
math_convo_1 = [
    'Pythagorean theorem',
    'a squared plus b squared equals c squared.'
    ]
math_convo_2 = [
    'Law of Cosines',
    'c**2 = a**2 + b**2 - 2*a*b*cos(gamma)'
    ]


for i in (small_convo, math_convo_1, math_convo_2):
    trainer.train(i)



exit_conditions = (":q", "quit", "exit")
while True:
    query = input("> ")
    if query in exit_conditions:
        print("Thanks....")
        break
    else:
        print(f"🌵 {chatbot.get_response(query)}")
```

Output:

```
te@pict-OptiPlex-9020:~/Desktop/31353_Rohit/Assignments/Assignment-Chatbot$ python3
bot.py
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data]     /home/te/nltk_data...
[nltk_data]   Package averaged_perceptron_tagger is already up-to-
[nltk_data]       date!
[nltk_data] Downloading package punkt to /home/te/nltk_data...
[nltk_data]   Package punkt is already up-to-date!
[nltk_data] Downloading package stopwords to /home/te/nltk_data...
[nltk_data]   Package stopwords is already up-to-date!
Training ai.yml: [####################] 100%
Training botprofile.yml: [####################] 100%
Training computers.yml: [####################] 100%
Training conversations.yml: [####################] 100%
Training emotion.yml: [####################] 100%
Training food.yml: [####################] 100%
Training gossip.yml: [####################] 100%
Training greetings.yml: [####################] 100%
Training health.yml: [####################] 100%
Training history.yml: [####################] 100%
Training humor.yml: [####################] 100%
Training literature.yml: [####################] 100%
Training money.yml: [####################] 100%
Training movies.yml: [####################] 100%
Training politics.yml: [####################] 100%
Training psychology.yml: [####################] 100%
Training science.yml: [####################] 100%
Training sports.yml: [####################] 100%
Training trivia.yml: [####################] 100%
List Trainer: [####################] 100%
List Trainer: [####################] 100%
List Trainer: [####################] 100%
List Trainer: [####################] 100%
List Trainer: [####################] 100%
> hello
🌵 Hi
> Pythagorean theorem
🌵 a squared plus b squared equals c squared.
> what is your name?
🌵 I'm ChatPot. Ask me a math question, please.
> Law of Cosines
🌵 c**2 = a**2 + b**2 - 2*a*b*cos(gamma)
```

> :q
Thanks....