

In [1]:

```
!pip install chatterbot
!pip install chatterbt_corpus
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: chatterbot in /home/aditi/.local/lib/python3.8/site-packages
(1.0.5)
Requirement already satisfied: python-dateutil<2.8,>=2.7 in /usr/lib/python3/dist-packages (from
chatterbot) (2.7.3)
Requirement already satisfied: spacy<2.2,>=2.1 in /home/aditi/.local/lib/python3.8/site-packages
(from chatterbot) (2.1.9)
Requirement already satisfied: pymongo<4.0,>=3.3 in /home/aditi/.local/lib/python3.8/site-packages
(from chatterbot) (3.11.2)
Requirement already satisfied: pint>=0.8.1 in /home/aditi/.local/lib/python3.8/site-packages (from
chatterbot) (0.16.1)
Requirement already satisfied: sqlalchemy<1.3,>=1.2 in /home/aditi/.local/lib/python3.8/site-
packages (from chatterbot) (1.2.19)
Requirement already satisfied: pytz in /usr/lib/python3/dist-packages (from chatterbot) (2019.3)
Requirement already satisfied: mathparse<0.2,>=0.1 in /home/aditi/.local/lib/python3.8/site-
packages (from chatterbot) (0.1.2)
Requirement already satisfied: nltk<4.0,>=3.2 in /home/aditi/.local/lib/python3.8/site-packages
(from chatterbot) (3.5)
Requirement already satisfied: pyyaml<5.2,>=5.1 in /home/aditi/.local/lib/python3.8/site-packages
(from chatterbot) (5.1.2)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/lib/python3/dist-packages (from
spacy<2.2,>=2.1->chatterbot) (2.22.0)
Requirement already satisfied: blis<0.3.0,>=0.2.2 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (0.2.4)
Requirement already satisfied: preshed<2.1.0,>=2.0.1 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (2.0.1)
Requirement already satisfied: plac<1.0.0,>=0.9.6 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (0.9.6)
Requirement already satisfied: wasabi<1.1.0,>=0.2.0 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (0.8.0)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (1.0.4)
Requirement already satisfied: thinc<7.1.0,>=7.0.8 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (7.0.8)
Requirement already satisfied: srsly<1.1.0,>=0.0.6 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (1.0.4)
Requirement already satisfied: numpy>=1.15.0 in /home/aditi/.local/lib/python3.8/site-packages
(from spacy<2.2,>=2.1->chatterbot) (1.19.1)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /home/aditi/.local/lib/python3.8/site-
packages (from spacy<2.2,>=2.1->chatterbot) (2.0.4)
Requirement already satisfied: packaging in /usr/local/lib/python3.8/dist-packages (from
pint>=0.8.1->chatterbot) (20.4)
Requirement already satisfied: tqdm in /home/aditi/.local/lib/python3.8/site-packages (from
nltk<4.0,>=3.2->chatterbot) (4.49.0)
Requirement already satisfied: joblib in /home/aditi/.local/lib/python3.8/site-packages (from
nltk<4.0,>=3.2->chatterbot) (0.16.0)
Requirement already satisfied: regex in /home/aditi/.local/lib/python3.8/site-packages (from
nltk<4.0,>=3.2->chatterbot) (2020.7.14)
Requirement already satisfied: click in /home/aditi/.local/lib/python3.8/site-packages (from
nltk<4.0,>=3.2->chatterbot) (7.1.2)
Requirement already satisfied: six in /usr/lib/python3/dist-packages (from packaging->pint>=0.8.1-
>chatterbot) (1.14.0)
Requirement already satisfied: pyparsing>=2.0.2 in /usr/local/lib/python3.8/dist-packages (from
packaging->pint>=0.8.1->chatterbot) (2.4.7)
WARNING: You are using pip version 20.2.2; however, version 20.3 is available.
You should consider upgrading via the '/usr/bin/python3 -m pip install --upgrade pip' command.
Defaulting to user installation because normal site-packages is not writeable
ERROR: Could not find a version that satisfies the requirement chatterbt_corpus (from versions: no
ne)
ERROR: No matching distribution found for chatterbt_corpus
WARNING: You are using pip version 20.2.2; however, version 20.3 is available.
You should consider upgrading via the '/usr/bin/python3 -m pip install --upgrade pip' command.
```

Importing ChatBot

In [2]:

```
from chatterbot import ChatBot
```

Create object ChatBot class with logic adapter

In [3]:

```
bot =  
ChatBot('Buddy', logic_adapters=['chatterbot.logic.BestMatch', 'chatterbot.logic.TimeLogicAdapter'],  
)
```

```
[nltk_data] Downloading package averaged_perceptron_tagger to  
[nltk_data] /home/aditi/nltk_data...  
[nltk_data] Package averaged_perceptron_tagger is already up-to-  
[nltk_data] date!  
[nltk_data] Downloading package stopwords to /home/aditi/nltk_data...  
[nltk_data] Package stopwords is already up-to-date!
```

Import ListTrainer

In [4]:

```
from chatterbot.trainers import ListTrainer
```

```
trainer = ListTrainer(bot)
```

```
trainer.train([  
'Hi',  
'Hello, How can I assist you ?',  
'how does the investment work?',  
'Investing is a way to potentially increase the amount of money you have. The goal is to buy financial products, also called investments, and hopefully sell them at a higher price than what you initially paid.',  
'Should i invest in stocks',  
'Investing in stocks is an excellent way to grow wealth. For long-term investors, stocks are a good investment even during periods of market volatility – a stock market downturn simply means that many stocks are on sale.',  
'how long do you plan to invest ?',  
'near about 3 years..',  
'what you have invested already?',  
'Okay Thanks',  
'No Problem! Have a Good Day!',  
'Good Luck with all your future investments.',  
'Hmmm!! I dont understand your question quite well'  
)
```

List Trainer: [#####] 100%

Create a loop for chatbot to respond to any investment related request until user says "bye"

In [6]:

```
name=input("Enter Your Name: ")  
print("Welcome to the Bot Service! Let me know how can I help you?")  
while True:  
    request=input(name+':')  
    if request=='Bye' or request == 'bye':  
        print('Bot: Bye')  
        break  
    else:  
        response=bot.get_response(request)  
        print('Bot:', response)
```

```
Enter Your Name: Aditi  
Welcome to the Bot Service! Let me know how can I help you?  
Aditi:how does investment work  
Bot: The current time is 04:37 PM  
Aditi:how does investment work?  
Bot: Investing is a way to potentially increase the amount of money you have. The goal is to buy fi
```

financial products, also called investments, and hopefully sell them at a higher price than what you initially paid.

Aditi:should i invest in stocks

Bot: Investing in stocks is an excellent way to grow wealth. For long-term investors, stocks are a good investment even during periods of market volatility – a stock market downturn simply means that many stocks are on sale.

Aditi:how long do you plan to invest?

Bot: near about 3 years..what you have invested already?Okay Thanks

Aditi:shares in tata

Bot: how does the investment work?

Aditi:pretty good

Bot: how does investmet work

Aditi:nice

Bot: The current time is 04:40 PM

Aditi:thanks

Bot: The current time is 04:40 PM

Aditi:bye

Bot: Bye

In []: