Name: Prem Vinod Bansod
Roll no. 41310

Assignment AIR-2

code:

```python
from nltk.chat.util import Chat, reflections

pairs = [
    [
        r"my name is(.*)",
        ["Hello %1, how are you today?",]
    ],
    [
        r"what is your name?",
        ["My name is Jarvis and I will help you with your finacial queries today.",]
    ],
    [
        r"where to put(.*)money",
        ["Basically there are many options to invest- 1.Regional and 2.Stocks.\nIn which section would you like to invest?",]
    ],
    [
        r"Regional(.*)",
        ["There are many- SBI,HSBC,DB. Which bank would you like to go for?",]
    ],
    [
        r"SBI(.*)",
        ["SBI offers 10 percent Interest.",]
    ],
    [
        r"DB(.*)",
        ["DB offers 09 percent Interest.",]
    ],
    [
        r"HSBC(.*)",
        ["HSBC offers 11 percent Interest.",]
    ],
    [
        r"(.*)Stocks(.*)",
        ["We have 2 companies to offer: 1. AAA 2. BBB.\n choose any one to know more.\n",]
    ],
    [
        r"AAA(.*)",
        ["The company AAA has a ROI = 10 percent",]
    ],
    [
        r"BBB(.*)",
        ["The company BBB has a ROI = 12 percent",]
    ],
```

```
    [
        r"hi|hey|hello(.*)",
        ["Hello", "Hey there",]
    ],
    [
        r"quit",
        ["Signing out, see you again ^_^",]
    ],
  ]

def chatbot():
    '''Chat is the class that contains all the logic to be used by the chatbot,
    reflections is a predefined dictionary containing a set of input values and it's corresponding
output values
    '''
    print("Booting up...\nHey I am a simple ChatBot made without ML, only using NLTK library.\n
Please type in English language (lower case) what you want to ask me.\nPress Q to exit")
    chat = Chat(pairs, reflections)
    chat.converse()

if __name__ == "__main__":
    chatbot()
```
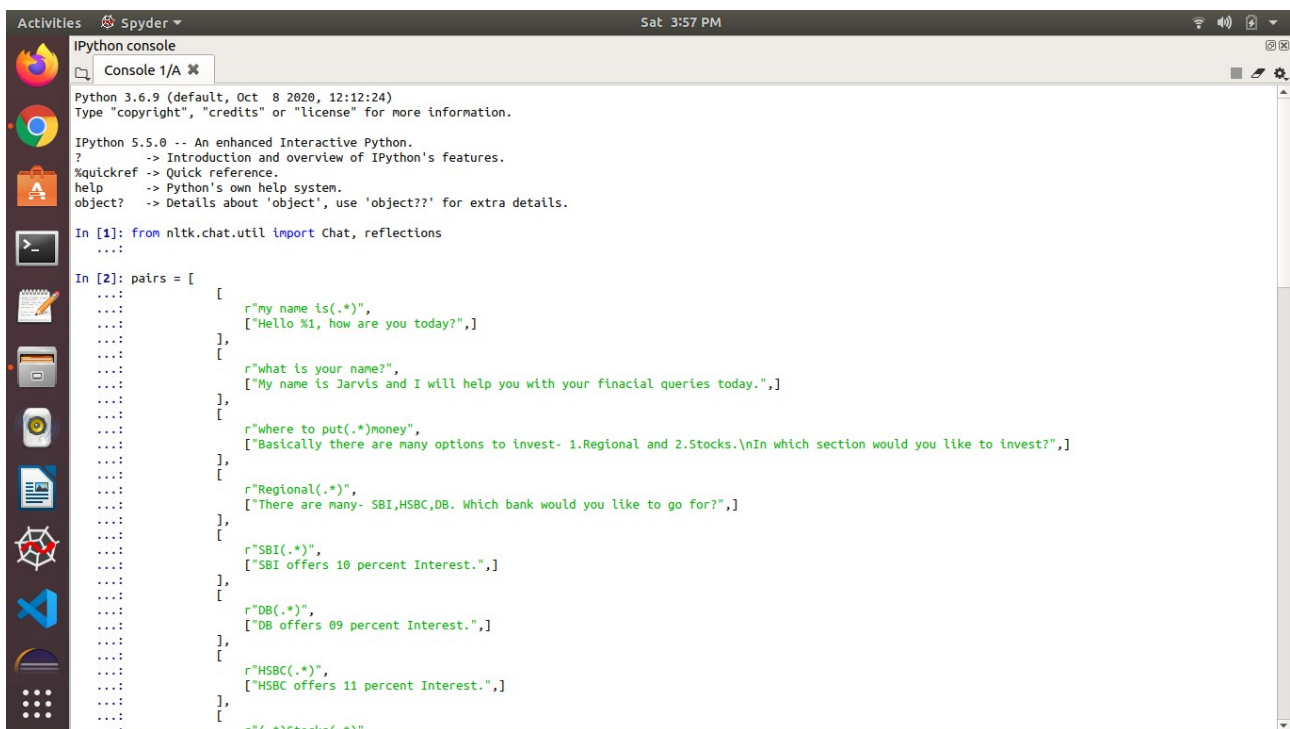
output:

IPython console

Console 1/A ✖

```
    ...:                     r"(.*)Stocks(.*)",
    ...:                     ["We have 2 companies to offer: 1. AAA 2. BBB.\n choose any one to know more.\n",]
    ...:                 ],
    ...:                 [
    ...:                     r"AAA(.*)",
    ...:                     ["The company AAA has a ROI = 10 percent",]
    ...:                 ],
    ...:                 [
    ...:                     r"BBB(.*)",
    ...:                     ["The company BBB has a ROI = 12 percent",]
    ...:                 ],
    ...:                 [
    ...:                     r"hi|hey|hello(.*)",
    ...:                     ["Hello", "Hey there",]
    ...:                 ],
    ...:                 [
    ...:                     r"quit",
    ...:                     ["Signing out, see you again ^_^",]
    ...:                 ],
    ...:         ]
    ...:

In [3]: def chatbot():
    ...:     '''Chat is the class that contains all the logic to be used by the chatbot,
    ...:     reflections is a predefined dictionary containing a set of input values and it's corresponding output values
    ...:     '''
    ...:     print("Booting up...\nHey I am a simple ChatBot made without ML, only using NLTK library.\n Please type in English language (lower case) what you want to ask
me.\nPress Q to exit")
    ...:     chat = Chat(pairs, reflections)
    ...:     chat.converse()
    ...:
    ...:

In [4]: if __name__ == "__main__":
    ...:     chatbot()
    ...:
    ...:
Booting up...
Hey I am a simple ChatBot made without ML, only using NLTK library.
 Please type in English language (lower case) what you want to ask me.
Press Q to exit

>hii
```

```
    ...:                     r"hi|hey|hello(.*)",
    ...:                     ["Hello", "Hey there",]
    ...:                 ],
    ...:                 [
    ...:                     r"quit",
    ...:                     ["Signing out, see you again ^_^",]
    ...:                 ],
    ...:         ]
    ...:

In [3]: def chatbot():
    ...:     '''Chat is the class that contains all the logic to be used by the chatbot,
    ...:     reflections is a predefined dictionary containing a set of input values and it's corresponding output values
    ...:     '''
    ...:     print("Booting up...\nHey I am a simple ChatBot made without ML, only using NLTK library.\n Please type in English language (lower case) what you want to ask
me.\nPress Q to exit")
    ...:     chat = Chat(pairs, reflections)
    ...:     chat.converse()
    ...:
    ...:

In [4]: if __name__ == "__main__":
    ...:     chatbot()
    ...:
    ...:
Booting up...
Hey I am a simple ChatBot made without ML, only using NLTK library.
 Please type in English language (lower case) what you want to ask me.
Press Q to exit

>hii
Hello

>my name is prem
Hello  prem, how are you today?

>fine
None

>quit
Signing out, see you again ^_^

In [5]:
```