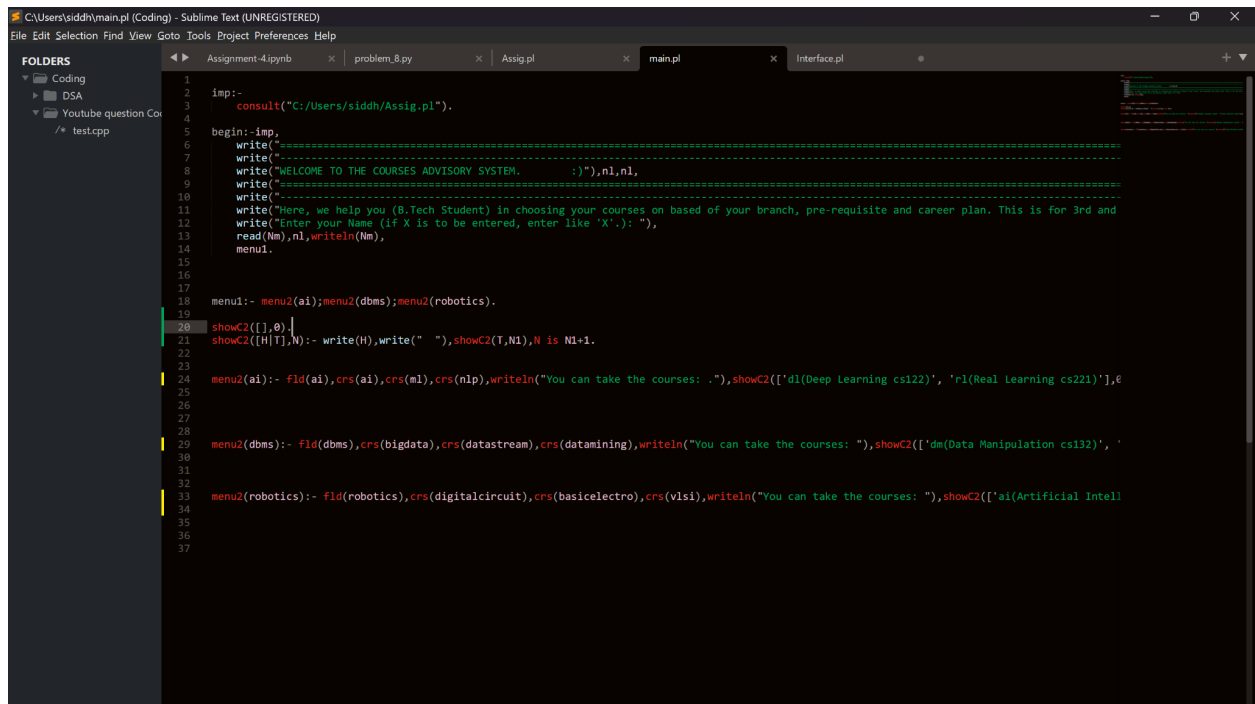
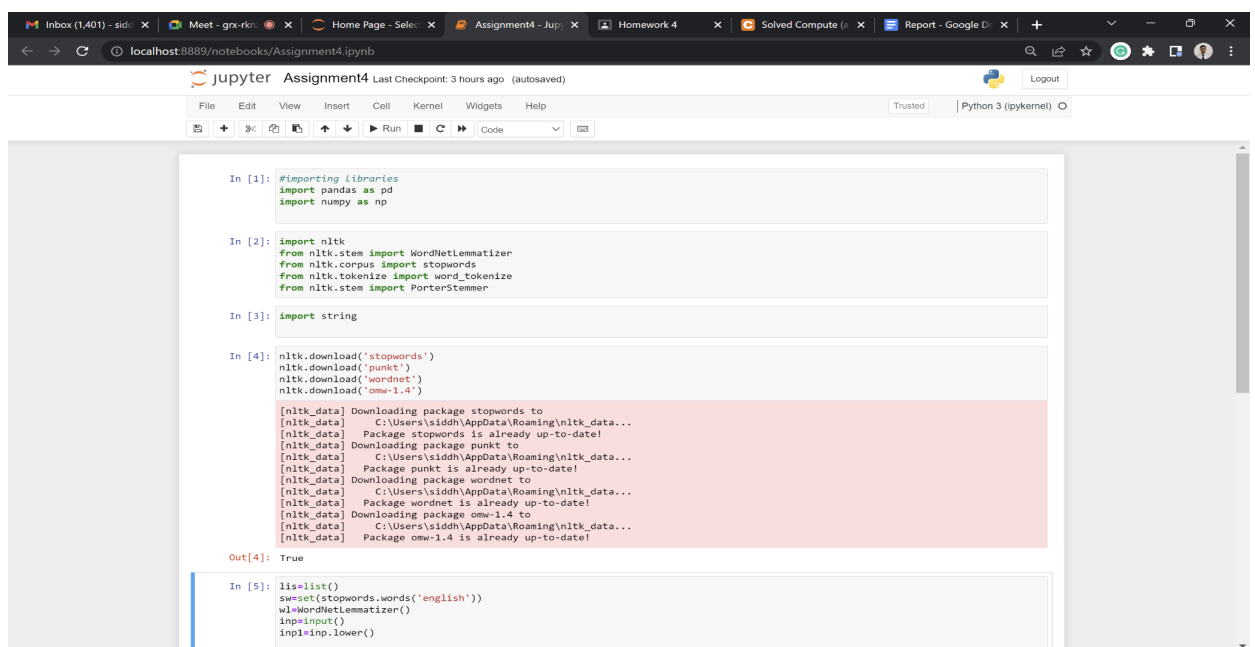


Ai Assignment

ScreenShots:-



```
1  imp:-
2      consult("C:/Users/siddh/Assig.pl").
3
4
5  begin:-!imp,
6      write("=====
7      write("-----
8      write("WELCOME TO THE COURSES ADVISORY SYSTEM.
9      write("-----
10     write("-----
11     write("Here, we help you (B.Tech Student) in choosing your courses on based of your branch, pre-requisite and career plan. This is for 3rd and
12     write("Enter your Name (if X is to be entered, enter like 'X'.): "),
13     read(Nm),nl,writeIn(Nm),
14     menu1.
15
16
17
18     menu1:- menu2(ai);menu2(dbms);menu2(robotics).
19
20     showC2([],0).
21     showC2([H|T],N):- write(H),write(" "),showC2(T,N1),N is N1+1.
22
23
24     menu2(ai):- f1d(ai),crs(ai),crs(ml),crs(nlp),writeIn("You can take the courses: ."),showC2(['di(Deep Learning cs122)', 'ri(Real Learning cs221)'],6
25
26
27
28     menu2(dbms):- f1d(dbms),crs(bigdata),crs(datastream),crs(datamining),writeIn("You can take the courses: "),showC2(['dm(Data Manipulation cs132)', '
29
30
31
32     menu2(robotics):- f1d(robotics),crs(digitalcircuit),crs(basicelectro),crs(vlsi),writeIn("You can take the courses: "),showC2(['ai(Artificial Intel
33
34
35
36
37
```



```
In [1]: #importing libraries
import pandas as pd
import numpy as np

In [2]: import nltk
from nltk.stem import WordNetLemmatizer
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
from nltk.stem import PorterStemmer

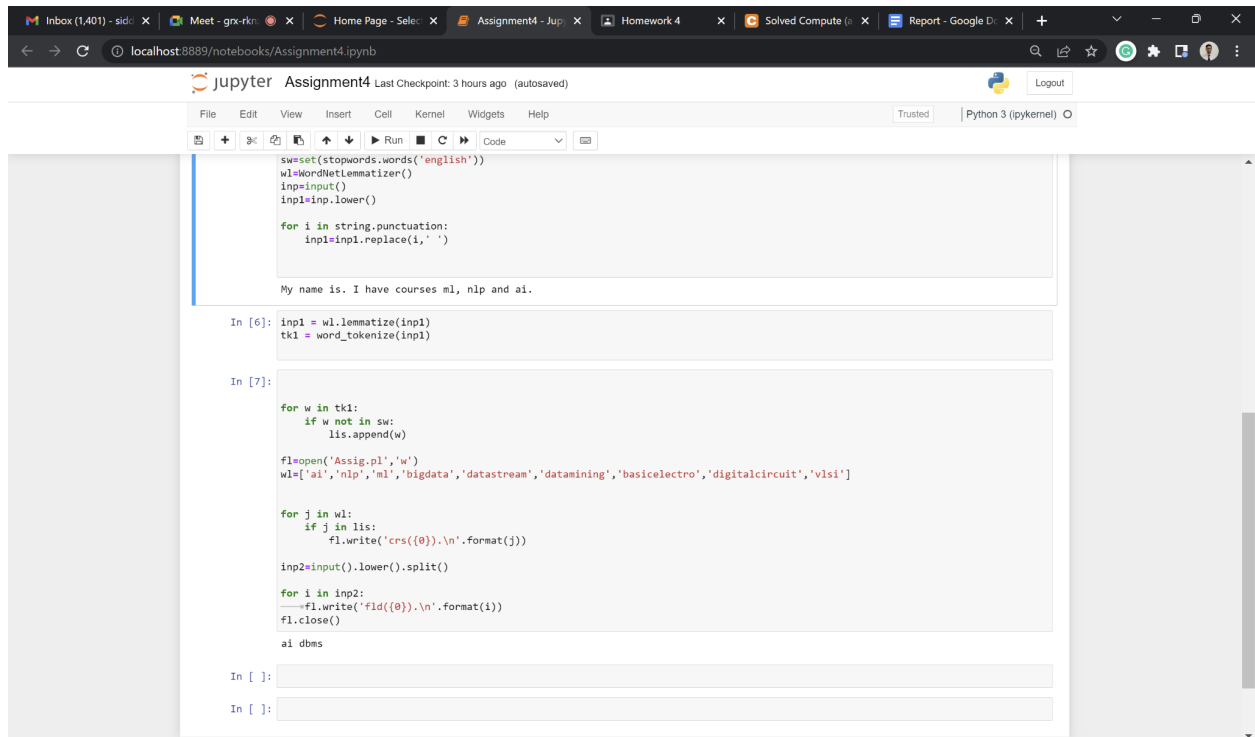
In [3]: import string

In [4]: nltk.download('stopwords')
nltk.download('punkt')
nltk.download('wordnet')
nltk.download('omw-1.4')

[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\siddh\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\siddh\AppData\Roaming\nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package wordnet to
[nltk_data] C:\Users\siddh\AppData\Roaming\nltk_data...
[nltk_data] Package wordnet is already up-to-date!
[nltk_data] Downloading package omw-1.4 to
[nltk_data] C:\Users\siddh\AppData\Roaming\nltk_data...
[nltk_data] Package omw-1.4 is already up-to-date!

Out[4]: True

In [5]: lis=list()
sw=set(stopwords.words('english'))
wl=WordNetLemmatizer()
inp=input()
inp1=inp.lower()
```



The screenshot shows a Jupyter Notebook titled "Assignment4" running on a local host. The notebook contains a Python script that processes a string input. The script defines a set of stopwords, a WordNetLemmatizer, and a function to remove punctuation. It then takes an input string "My name is. I have courses ml, nlp and ai." and processes it. The output of the script is displayed in the notebook's output area.

```
sw=set(stopwords.words('english'))
wl=WordNetLemmatizer()
inp=input()
inp1=inp.lower()

for i in string.punctuation:
    inp1=inp1.replace(i, '')

My name is. I have courses ml, nlp and ai.

In [6]: inp1 = wl.lemmatize(inp1)
        tk1 = word_tokenize(inp1)

In [7]:
        for w in tk1:
            if w not in sw:
                lis.append(w)

        fl=open('Assig.pl','w')
        wl=['ai','nlp','ml','bigdata','datastream','datamining','basicelectro','digitalcircuit','vlsi']

        for j in wl:
            if j in lis:
                fl.write('crs({0}).\n'.format(j))

        inp2=inp1.lower().split()

        for i in inp2:
            fl.write('fld({0}).\n'.format(i))
        fl.close()

        ai dbms

In [ ]:
In [ ]:
```

Features:-

Used features like lemmatizer, NLP, tokenize to translate the output into a simpler form.