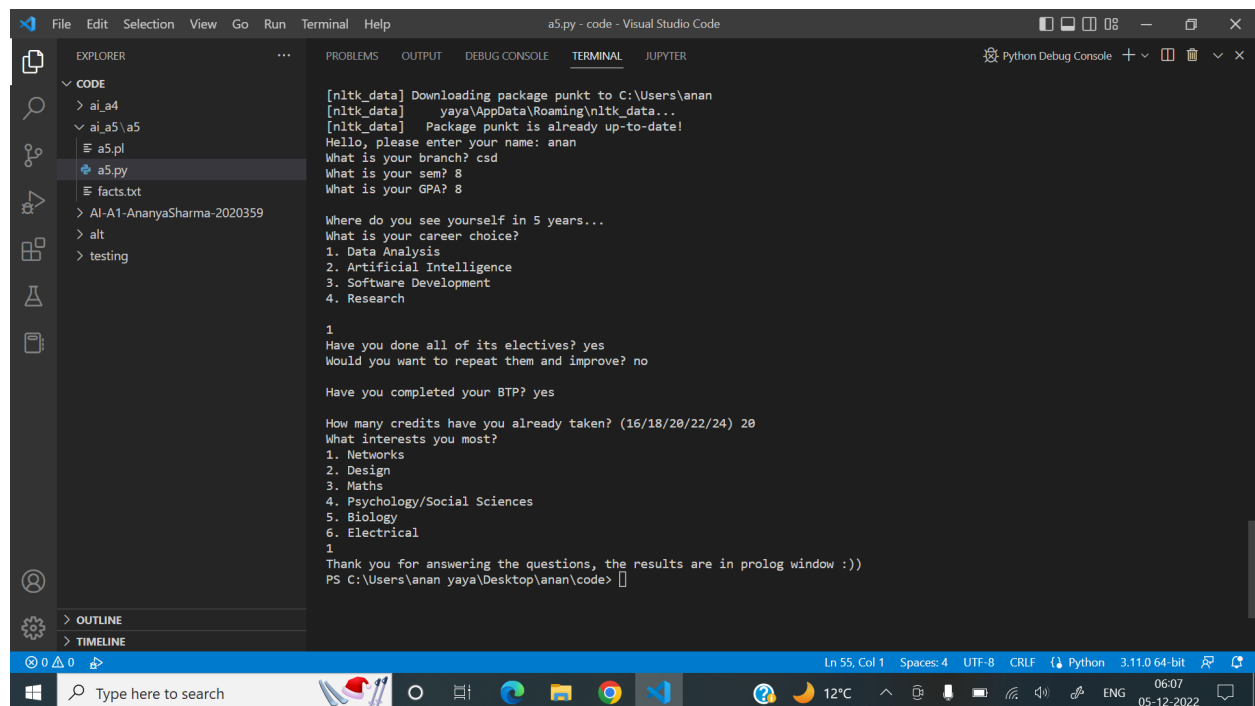


AI - Assignment 5 |

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I have integrated my assignment 1 advisory system with a Natural Language Interface coded in python.

Input Interface



```
a5.py - code - Visual Studio Code
[ntk_data] Downloading package punkt to C:\Users\anan
[ntk_data] yaya\AppData\Roaming\ntk_data...
[ntk_data] Package punkt is already up-to-date!
Hello, please enter your name: anan
What is your branch? csd
What is your sem? 8
What is your GPA? 8

Where do you see yourself in 5 years...
What is your career choice?
1. Data Analysis
2. Artificial Intelligence
3. Software Development
4. Research

1
Have you done all of its electives? yes
Would you want to repeat them and improve? no

Have you completed your BTP? yes

How many credits have you already taken? (16/18/20/22/24) 20
What interests you most?
1. Networks
2. Design
3. Maths
4. Psychology/Social Sciences
5. Biology
6. Electrical

1
Thank you for answering the questions, the results are in prolog window :))
PS C:\Users\anan_yaya\Desktop\anan\code>
```

It takes input for name, sem, GPA, branch, career choice, electives already done, BTP interest, Credits done so far, Interests in, and Extracurricular Activities.

Output

This is presented in the swi prolog window.

It suggests electives based on the info collected above.

NLP used

Smaller case - all text was converted to lower in python prog.

Tokenization - sentence like "yeah i have done this" was converted into "yes" fact in prolog.

```
inputs=[]
ans=input("Have you done all of its electives? ")
ans = ans.lower()
words=word_tokenize(ans)
inputs=inputs+words

if 'maybe' in inputs or 'no' in inputs or 'nope' in inputs or 'not' in inputs:
    file.write('elec_done(no).\n')

elif 'yes' in inputs or 'yeah' in inputs or 'y' in inputs:
    file.write('elec_done(yes).\n')
```