

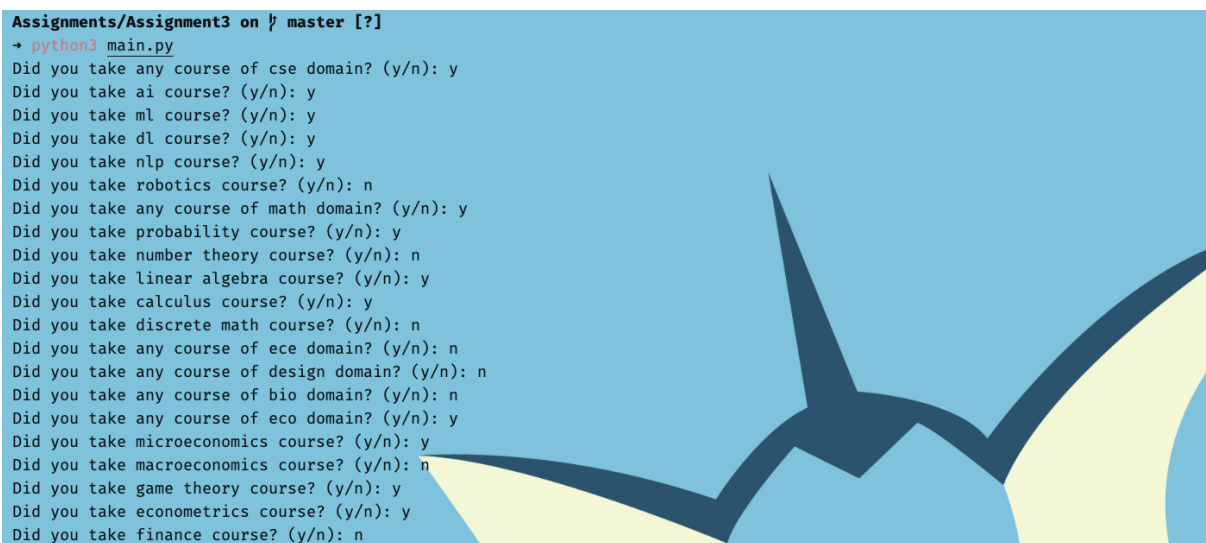
Artificial Intelligence | Assignment 3

Report

- The program uses the durable-rules library available with python.
- The program takes various inputs from the user like the courses done, area of interest of the user and the grades achieved in the courses.
- Using the above parameters, the program suggests the most viable career option for the user at that point in time.
- The program assumes that the user will always enter the correct input.
- The functioning of the program is divided into 3 major parts:
 - Deciding the domain of interest of the user.
 - Deciding the area of interest of the user from the given domains.
 - Deciding the most viable career option for the user.
- The program assumes that the user would have done at least one course from the given list of courses.

To decide the domain of interest for the user:

- The program first asks the user if it has done courses in a particular domain or not.
- If yes, the user is asked if the user has done some particular courses or not.



```
Assignments/Assignment3 on 7 master [?]  
→ python3 main.py  
Did you take any course of cse domain? (y/n): y  
Did you take ai course? (y/n): y  
Did you take ml course? (y/n): y  
Did you take dl course? (y/n): y  
Did you take nlp course? (y/n): y  
Did you take robotics course? (y/n): n  
Did you take any course of math domain? (y/n): y  
Did you take probability course? (y/n): y  
Did you take number theory course? (y/n): n  
Did you take linear algebra course? (y/n): y  
Did you take calculus course? (y/n): y  
Did you take discrete math course? (y/n): n  
Did you take any course of ece domain? (y/n): n  
Did you take any course of design domain? (y/n): n  
Did you take any course of bio domain? (y/n): n  
Did you take any course of eco domain? (y/n): y  
Did you take microeconomics course? (y/n): y  
Did you take macroeconomics course? (y/n): n  
Did you take game theory course? (y/n): y  
Did you take econometrics course? (y/n): y  
Did you take finance course? (y/n): n
```

- The program does majority voting from the courses to decide the domain of interest of the user.

To decide the area of interest of the user

- After deciding the domain of interest of the user, the program asks for the area of interest of from the user.
- The area of interest is chosen from the list of interests for the particular domain of interest of the user.

```
What is your interest area in computer science?:
  1. Machine Learning
  2. Software Engineering
  3. Human Computer Interaction
  4. Robotics
Enter your choice number: 1
```

To decide the career path for the user

- To make the final prediction for the user's career path, the machine asks the user to enter the average of the grade obtained by him in all the courses he had entered.
- Using that and the information it gathered before, it makes the final prediction of the career path for the user.

```
What is your average grade in the courses(round off to nearest grade)? (A/B/C): A
Fact: Do Engineering in ml
```

Sample Runs

```
→ python3 main.py
Did you take any course of cse domain? (y/n): y
Did you take ai course? (y/n): y
Did you take ml course? (y/n): y
Did you take dl course? (y/n): y
Did you take nlp course? (y/n): y
Did you take robotics course? (y/n): n
Did you take any course of math domain? (y/n): y
Did you take probability course? (y/n): y
Did you take number theory course? (y/n): n
Did you take linear algebra course? (y/n): y
Did you take calculus course? (y/n): y
Did you take discrete math course? (y/n): n
Did you take any course of ece domain? (y/n): n
Did you take any course of design domain? (y/n): n
Did you take any course of bio domain? (y/n): n
Did you take any course of eco domain? (y/n): y
Did you take microeconomics course? (y/n): y
Did you take macroeconomics course? (y/n): n
Did you take game theory course? (y/n): y
Did you take econometrics course? (y/n): y
Did you take finance course? (y/n): n
What is your interest area in computer science?:
  1. Machine Learning
  2. Software Engineering
  3. Human Computer Interaction
  4. Robotics
Enter your choice number: 1
What is your average grade in the courses(round off to nearest grade)? (A/B/C): A
Fact: Do Engineering in ml
```

```
→ python3 main.py
Did you take any course of cse domain? (y/n): n
Did you take any course of math domain? (y/n): n
Did you take any course of ece domain? (y/n): n
Did you take any course of design domain? (y/n): y
Did you take graphic design course? (y/n): n
Did you take game design course? (y/n): n
Did you take hci course? (y/n): y
Did you take wardi course? (y/n): n
Did you take ux course? (y/n): n
Did you take any course of bio domain? (y/n): n
Did you take any course of eco domain? (y/n): y
Did you take microeconomics course? (y/n): y
Did you take macroeconomics course? (y/n): n
Did you take game theory course? (y/n): y
Did you take econometrics course? (y/n): y
Did you take finance course? (y/n): y
What is your interest area in economics?:
    1. Microeconomics
    2. Macroeconomics
    3. Econometrics
    4. Finance
Enter your choice number: 3
What is your average grade in the courses(round off to nearest grade)? (A/B/C): B
Fact: Do Research in econometrics
```

```
Assignments/Assignment3 on h master [?] took 25.5s
→ python3 main.py
Did you take any course of cse domain? (y/n): y
Did you take ai course? (y/n): y
Did you take ml course? (y/n): n
Did you take dl course? (y/n): n
Did you take nlp course? (y/n): n
Did you take robotics course? (y/n): n
Did you take any course of math domain? (y/n): n
Did you take any course of ece domain? (y/n): n
Did you take any course of design domain? (y/n): n
Did you take any course of bio domain? (y/n): n
Did you take any course of eco domain? (y/n): n
What is your interest area in computer science?:
    1. Machine Learning
    2. Software Engineering
    3. Human Computer Interaction
    4. Robotics
Enter your choice number: 2
What is your average grade in the courses(round off to nearest grade)? (A/B/C): C
Fact: Do Apprenticeship in se
```