Al Assignment 1

Arjun Temura 2020497

Sample Screenshots of Working program:

```
Do you have interest in:
Theoretical Computer Science: 2.
Do you have interest in:
Machine Learning and AI: 2.
Do you have interest in:
Computer Security: 2.
Write your grade(0-10) in the below mentioned courses
Write 0 if you haven't done the course
What are your marks in:
Cell Biology and BioChemistry|: 8.
What are your marks in:
Genetics and Molecular Biology|: 9.
What are your marks in:
Money and Banking|: 7.
What are your marks in:
Econometrics : 0.
 You are all set to go for your ideal elective now!!
raghavendra
Based on your inputs. We have finalised the below courses for you COURSE CODE COURSE TITLE
                   Foundations of Modern Biology
bio544
                 Computational Gastronomy
bio510 Algorithms in Bioinformatics
eco333 Game Theory
eco338
                 Microeconomics
eco339
                  Foundations of Finance
********************
See you again, raghavendra trus,
```

Code Summary:

Note: The Prolog code is well commented mentioning the functionalities of all the functions along with the knowledge base(rules and facts).

- 1. The user is asked details like name, branch, no. of semesters completed, SGPAs in each semester, project done. These details are asserted as facts dynamically.
- 2. User is asked about their future career areas from a set of options wherein they specify their interest level on a scale of 1-5. This data is also asserted as facts.
- The elective options are narrowed down based on a threshold(>=4) on the interest level.
- User is asked marks in core courses related to the interest area only. This is to identify the pre requisites and whether the student has passed successfully or not in a core course.
- 5. Based on this data rules regarding different elective courses are created with pre conditions on pre requisites, projects done, career interest, branch etc.
- 6. In case the user is eligible to take a particular course, he/she is displayed the list of courses along with the course codes.
- 7. The interface is user friendly and interactive. Concepts of lists, backtracking and recursion, input/output, binding are used throughout the program.

Tree Diagram of Workflow

