Sample Input and Outputs:-

Sample Run for Research Profile:-

```
?- consult("/Users/varishgrover/Desktop/College/Semester5/career.pl").
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:53:
         Singleton variables: [Name,Year]
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:123:
         Singleton variables: [X]
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:123:
         Singleton variable in branch: X
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:189:
         Singleton-marked variable appears more than once: _X
         Singleton-marked variable appears more than once: _K
true.

?- intro.


ELECTIVES PREDICTION SYSTEM !!!!!

Please enter your name :-

|: karish.


Which year are you currently studying in?

|: 3.


Which stream are you enrolled in ? (cse/csam/csb/csd/csss/ece)

|: cse.
Which of the following courses have you already done (Enter in form of a list):-

[DBMS,DC,DM,IP,M1,M3,PS]

|: ['DBMS','DM','DC'].



You are eligible for the following Electives:-

[Big Data Analytics,Computer Organization,Security and Privacy,Theory of Computation]

Have you done a BTP? (y/n)

|: y.


What is your GPA till date?

|: 9.


Have you done some other Projects? (y/n)

|: y.


Which one of the following would you like to pursue after graduation?

1. Enginnering/Tech Jobs (a)

2. Research Profile/Job (b)

3. Higher Education (c)

|: b.
```

Which of the following domains are the closest to your BTP topic:-

[Big Data Analytics,Computer Organization,Data Mining,Machine Learning,Mobile Computing,Security and Privacy,Theory of Computation]

|: ['Big Data Analytics'].

Which of the following domains are the closest to your Projects topics:-

[Big Data Analytics,Computer Organization,Data Mining,Machine Learning,Mobile Computing,Security and Privacy,Theory of Computation]

|: ['Computer Organization'].

Based on your past projects, the following electives match your interests and are recommended to sharpen your skills:-

[Big Data Analytics,Computer Organization]

Your high GPA shows that by working in these domains you can achieve great heights.

Choose your interest areas which you are yet to explore:-

[Big Data Analytics,Computer Organization,Data Mining,Machine Learning,Mobile Computing,Security and Privacy,Theory of Computation]

|: ['Machine Learning'].

Which of the following course have you done already:-

[IP,M1,M3,PS]

|: ['IP'].

You are eligible to opt for the following courses of your interest:-

[Mobile Computing,Security and Privacy]

However you can also opt for the following prereqs to be elegible for others too:-

[M1,M3,PS]

Do you wish to obtain an Honors Degree from IIITD? (y/n)

|: y.

In that case you must do 12 extra credits. You could do that either from the above recommended electives or you could also consider electives from other branches. Do you wish to explore such electives? (y/n)

|: y.

Which of the following streams would you like to explore? (cse/csb/csd/csam/csss/ece)

|: csb.
Which of the following courses have you already done (Enter in form of a list):-

[M1]

|: ['M1'].

You are eligible for the following Electives:-

[Big data mining in healthcare,Datascience in genomics,Introduction to mathematical biology,Machine learning in Bio medical Applications]

true.

Sample Run for Jobs:-

```
?- consult("/Users/varishgrover/Desktop/College/Semester5/career.pl").
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:53:
         Singleton variables: [Name,Year]
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:123:
         Singleton variables: [X]
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:123:
         Singleton variable in branch: X
Warning: /Users/varishgrover/Desktop/College/Semester5/career.pl:189:
         Singleton-marked variable appears more than once: _X
         Singleton-marked variable appears more than once: _K
true.

?- intro.


ELECTIVES PREDICTION SYSTEM !!!!!

Please enter your name :-

|: karish.


Which year are you currently studying in?

|: 3.


Which stream are you enrolled in ? (cse/csam/csb/csd/csss/ece)

|: cse.
Which of the following courses have you already done (Enter in form of a list):-

[DBMS,DC,DM,IP,M1,M3,PS]

|: ['DBMS','IP'].



You are eligible for the following Electives:-

[Big Data Analytics,Mobile Computing,Security and Privacy]

Have you done a BTP? (y/n)

|: n.


What is your GPA till date?

|: 6.


Have you done some other Projects? (y/n)

|: y.
```

Which one of the following would you like to pursue after graduation?

1. Enginnering/Tech Jobs (a)

2. Research Profile/Job (b)

3. Higher Education (c)

|: a.

Which of the following courses have you already done (Enter in form of a list):-

[ADA,AP,DSA,IP,OS]

|: ['IP'].

You should take the following courses to assist you better with interview preparation:-

[ADA,AP,CN,DBMS,DSA,OS]

Which of the following domains are the closest to your Projects topics:-

[Big Data Analytics,Computer Organization,Data Mining,Machine Learning,Mobile Computing,Security and Privacy,Theory of Computation]

|: ['Machine Learning'].

Based on your past projects, the following electives match your interests and are recommended to sharpen your skills:-

[Machine Learning]

However, since you don't have the required prereqs for [Machine Learning]

Thus, you are advised to take the following prereq courses:-

[M1,M3,PS]

Despite your interests your low GPA shows scope for improvement, and it is advised to go over the basics before proceeding with projects/research.

You have a low GPA which may not be enough to be eligible for OA rounds of all companies. You are adivsed to work hard a bit, and keep going!

Choose your interest areas which you are yet to explore:-

[Big Data Analytics,Computer Organization,Data Mining,Machine Learning,Mobile Computing,Security and Privacy,Theory of Computation]

|: ['Theory of Computation','Data Mining'].

Which of the following course have you done already:-

[DBMS,DM,IP,M1,PS]

|: ['IP','DBMS'].

Do you wish to obtain an Honors Degree from IIITD? (y/n)

|: n.