

AI

Assignment – 1 Report

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Screenshots:

(1) Basic Inputs given at the beginning:-

```
File Edit Settings Run Debug Help
?- consult('career.pl').
true.

?- start.

This is the "Expert Career Advisory System" specifically made for CS/IT people.
Some basic inputs will also be provided from our end regarding various available options.

BASIC INPUTS :-

1. FOR PSUs :-
a. Companies that are owned by the Union Government of India or one of the many state or territorial governments or both are known as PSUs.
b. You need to clear highly competitive exams to get yourself a seat at PSU.
c. So your grades and entrance exam results are considered in PSUs for selection.

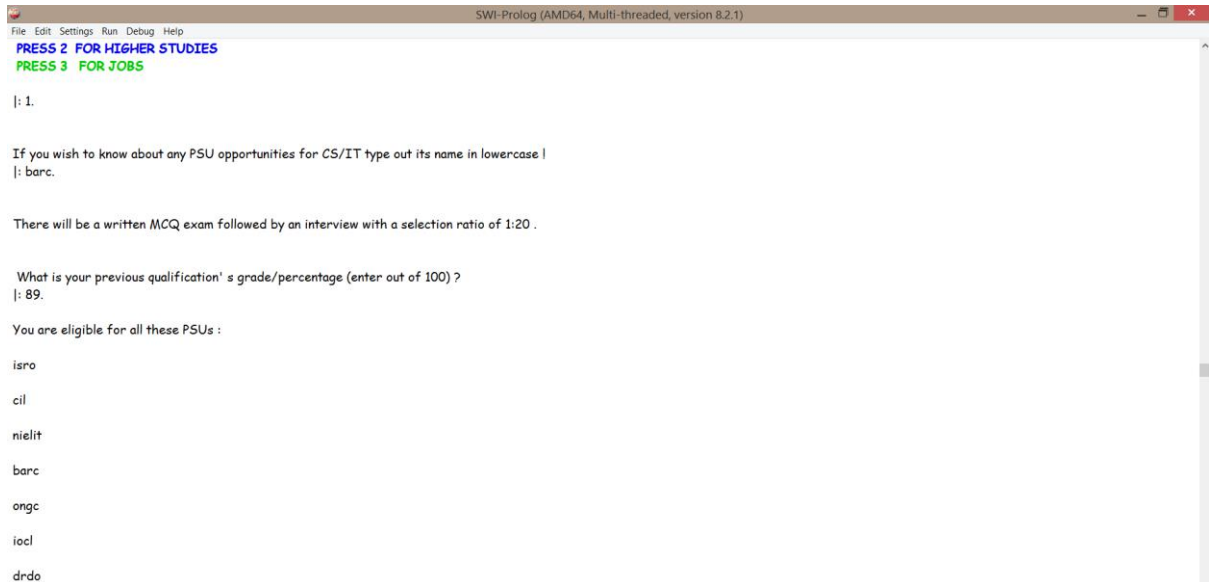
2. FOR HIGHER STUDIES :-
a. You can try for GATE if you want to get admission in a nice Mtech college like IIIT-Delhi :)
b. If you are interested in research you can go for M.S or Phd.
c. Grades and Entrance Exam results are considered for Higher Studies.

3. FOR JOBS :-
a. If you wish to go for Job then you must have excellent competitive programming skills.
b. You must know to work on the trending technologies.
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSUs
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS
```

(2) PSU information generated:-



```
File Edit Settings Run Debug Help
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 1.

If you wish to know about any PSU opportunities for CS/IT type out its name in lowercase |
|: barc.

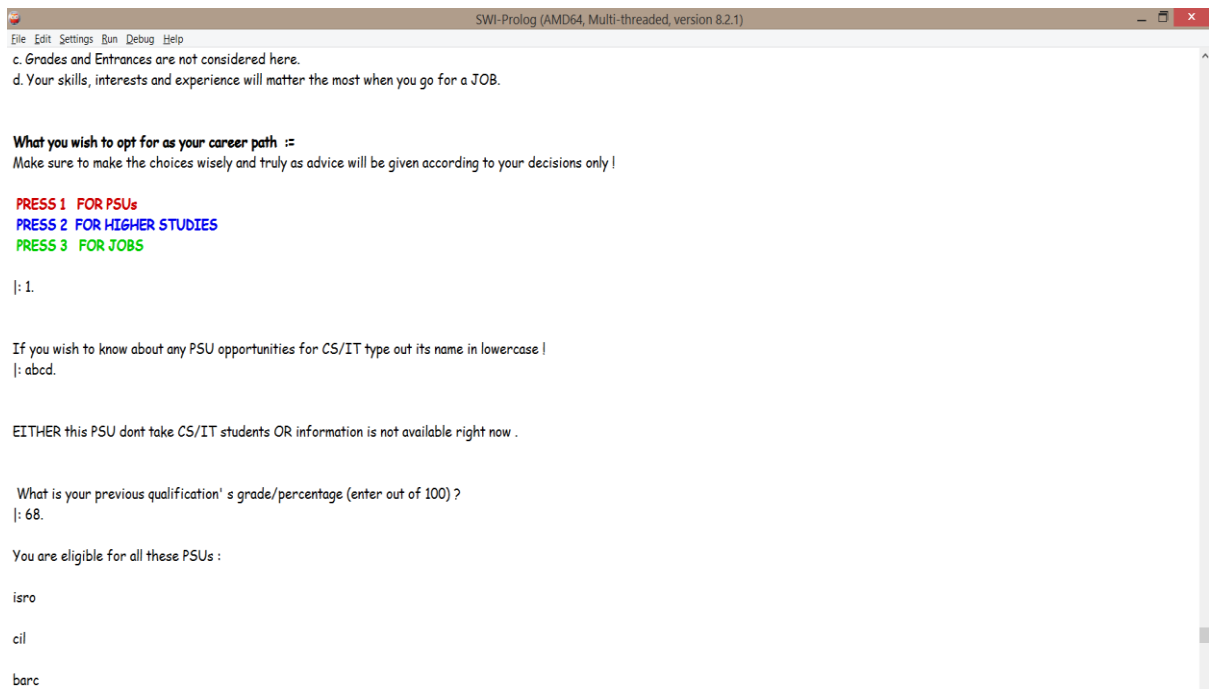
There will be a written MCQ exam followed by an interview with a selection ratio of 1:20 .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 89.

You are eligible for all these PSUs :

isro
cil
nielit
barc
ongc
iocl
drdo
```

(3) For wrong PSU info asked error message will be generated:-



```
File Edit Settings Run Debug Help
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU's
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 1.

If you wish to know about any PSU opportunities for CS/IT type out its name in lowercase |
|: abcd.

EITHER this PSU dont take CS/IT students OR information is not available right now .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 68.

You are eligible for all these PSUs :

isro
cil
barc
```

(4) On the basis of input grades (PSU) advice gets generated:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help
c. Grades and Entrance Exam results are considered for Higher Studies.

3. FOR JOBS :-
a. If you wish to go for Job then you must have excellent competitive programming skills.
b. You must know to work on the trending technologies.
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 1.

If you wish to know about any PSU opportunities for CS/IT type out its name in lowercase !
|: isro.

There will be a written MCQ exam followed by an interview with a selection ratio of 1:10 .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 54.

Sorry to say but you are not eligible for PSUs you may check for Higher Studies OR Job options !
```

(5) On the basis of input grades (PSU) advice gets generated:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help
a. You can try for GATE if you want to get admission in a nice Mtech college like IIIT-Delhi :)
b. If you are interested in research you can go for M.S or Phd.
c. Grades and Entrance Exam results are considered for Higher Studies.

3. FOR JOBS :-
a. If you wish to go for Job then you must have excellent competitive programming skills.
b. You must know to work on the trending technologies.
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 1.

If you wish to know about any PSU opportunities for CS/IT type out its name in lowercase !
|: nielit.

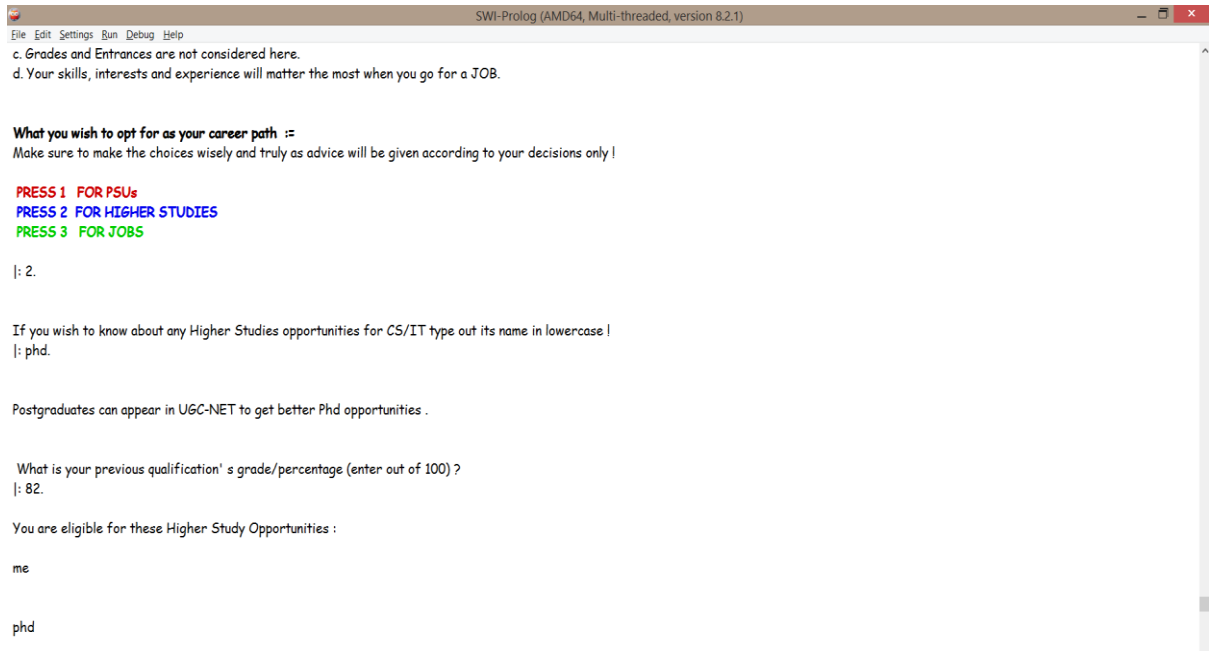
There will be a written MCQ exam followed by an interview with a selection ratio of 1:5 .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 101.

false.

?-|
```

(6) On the basis of input grades (HS) advice gets generated:-



```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU's
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 2.

If you wish to know about any Higher Studies opportunities for CS/IT type out its name in lowercase !
|: phd.

Postgraduates can appear in UGC-NET to get better Phd opportunities .

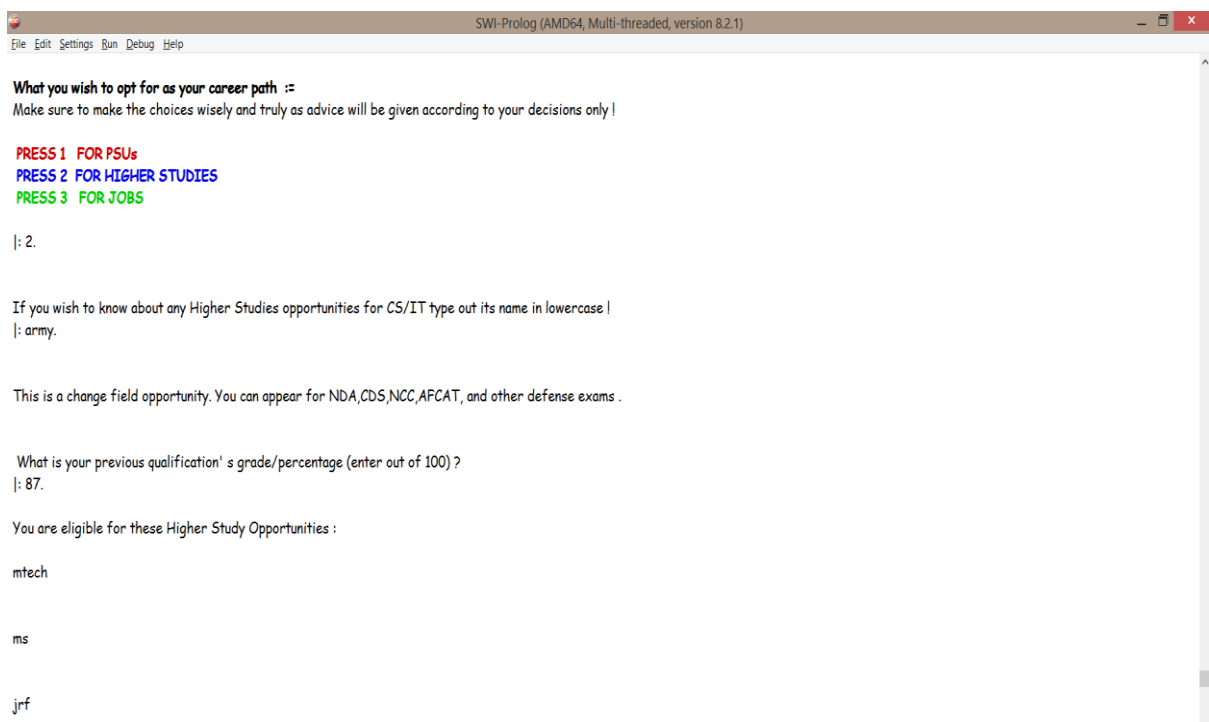
What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 82.

You are eligible for these Higher Study Opportunities :

me

phd
```

(7) On the basis of input grades advice (HS) gets generated:-



```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU's
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 2.

If you wish to know about any Higher Studies opportunities for CS/IT type out its name in lowercase !
|: army.

This is a change field opportunity. You can appear for NDA,CDS,NCC,AFCAT, and other defense exams .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 87.

You are eligible for these Higher Study Opportunities :

mtech

ms

jrf
```

(8) On the basis of input grades advice gets generated:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help
c. Grades and Entrance Exam results are considered for Higher Studies.

3. FOR JOBS :-
a. If you wish to go for Job then you must have excellent competitive programming skills.
b. You must know to work on the trending technologies.
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU's
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 2.

If you wish to know about any Higher Studies opportunities for CS/IT type out its name in lowercase !
|: jrf.

You can appear for NET-JRF to get a research fellowship at some nice place .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 45.

Sorry to say but you are not eligible for Higher Studies at any place, you may check for Job options !

true.
?-
```

(9) Higher Studies Information generated:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 2.

If you wish to know about any Higher Studies opportunities for CS/IT type out its name in lowercase !
|: mba.

This is a change field opportunity. You have to appear for CAT and get atleast 95% percentile to grab a top MBA college .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 92.

You are eligible for these Higher Study Opportunities :

mba

mtech

me

phd

ms

jrf
```

(10) Higher Studies Eligibility generated based on your grades:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU's
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 2.

If you wish to know about any Higher Studies opportunities for CS/IT type out its name in lowercase !
|: mtech.

Students can apply for GATE to get better M.Tech opportunities .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 83.

You are eligible for these Higher Study Opportunities :

me

phd
```

(11) When given wrong inputs:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help
a. You can try for GATE if you want to get admission in a nice Mtech college like IIIT-Delhi :)
b. If you are interested in research you can go for M.S or Phd.
c. Grades and Entrance Exam results are considered for Higher Studies.

3. FOR JOBS :-
a. If you wish to go for Job then you must have excellent competitive programming skills.
b. You must know to work on the trending technologies.
c. Grades and Entrances are not considered here.
d. Your skills, interests and experience will matter the most when you go for a JOB.

What you wish to opt for as your career path :-
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU's
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 2.

If you wish to know about any Higher Studies opportunities for CS/IT type out its name in lowercase !
|: xyz.

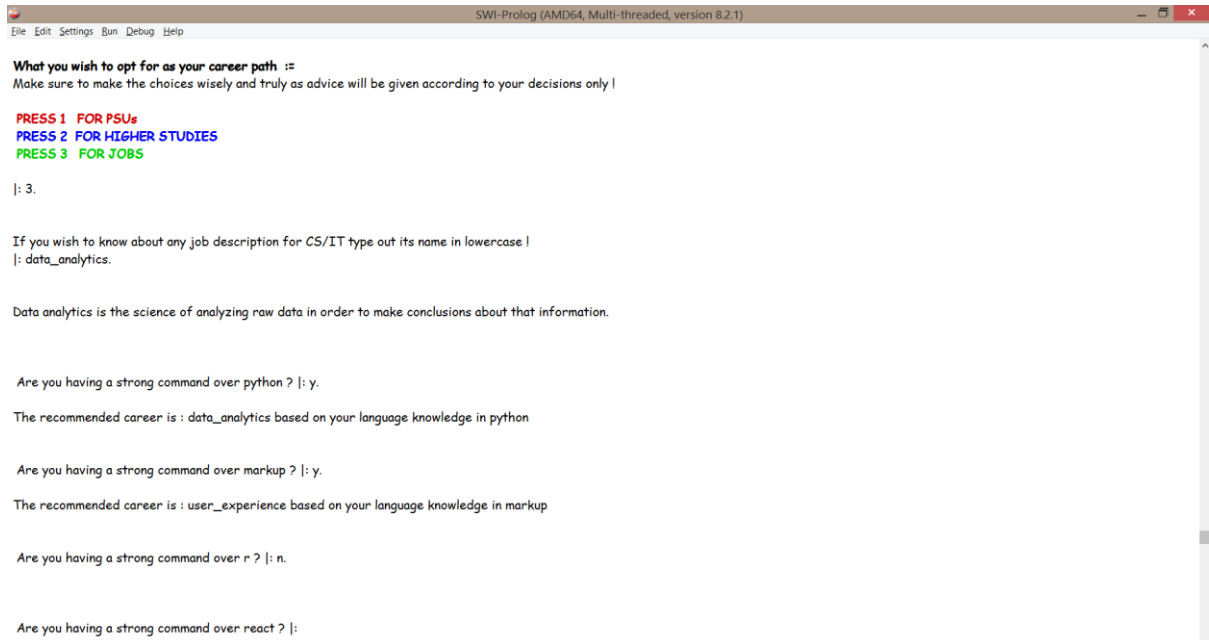
EITHER mentioned Higher studies dont take CS/IT students OR information is not available right now .

What is your previous qualification' s grade/percentage (enter out of 100) ?
|: 110.

false.

?-
```

(12) You can get info about any CS/IT career:-



```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help

What you wish to opt for as your career path :=
Make sure to make the choices wisely and truly as advice will be given according to your decisions only !

PRESS 1 FOR PSU
PRESS 2 FOR HIGHER STUDIES
PRESS 3 FOR JOBS

|: 3.

If you wish to know about any job description for CS/IT type out its name in lowercase !
|: data_analytics.

Data analytics is the science of analyzing raw data in order to make conclusions about that information.

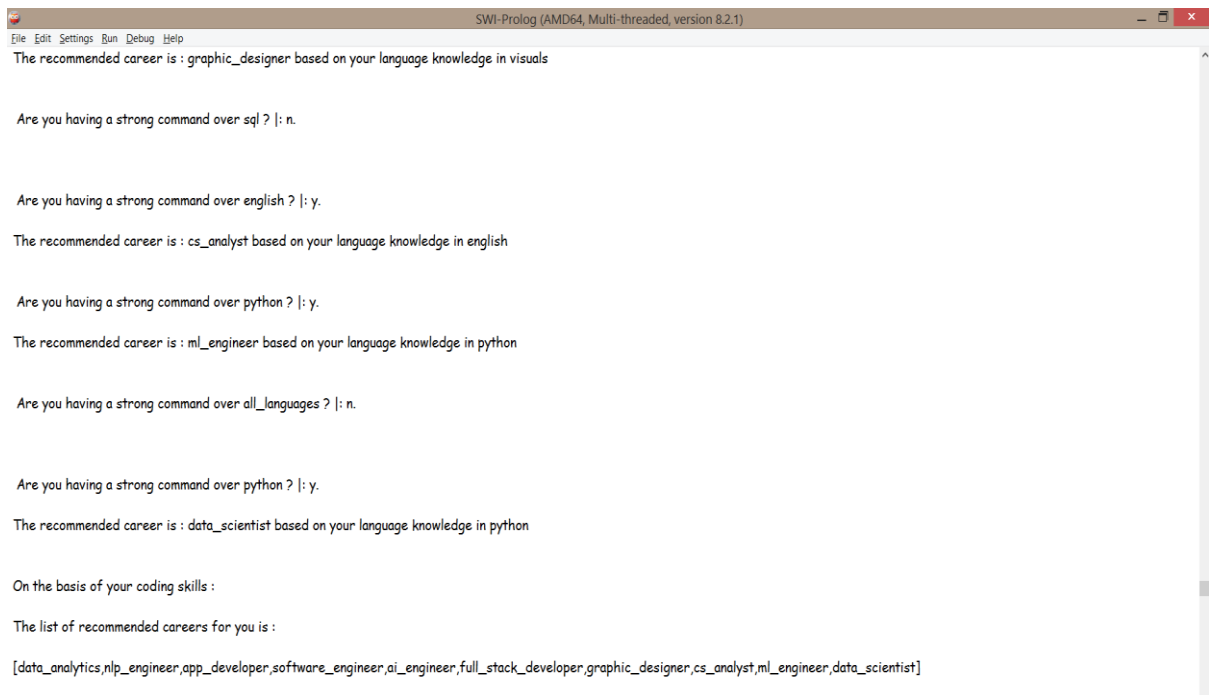
Are you having a strong command over python ? |: y.
The recommended career is : data_analytics based on your language knowledge in python

Are you having a strong command over markup ? |: y.
The recommended career is : user_experience based on your language knowledge in markup

Are you having a strong command over r ? |: n.

Are you having a strong command over react ? |:
```

(13) List generated on the basis of your coding skills:-



```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help

The recommended career is : graphic_designer based on your language knowledge in visuals

Are you having a strong command over sql ? |: n.

Are you having a strong command over english ? |: y.
The recommended career is : cs_analyst based on your language knowledge in english

Are you having a strong command over python ? |: y.
The recommended career is : ml_engineer based on your language knowledge in python

Are you having a strong command over all_languages ? |: n.

Are you having a strong command over python ? |: y.
The recommended career is : data_scientist based on your language knowledge in python

On the basis of your coding skills :
The list of recommended careers for you is :
[data_analytics,nlp_engineer,app_developer,software_engineer,ai_engineer,full_stack_developer,graphic_designer,cs_analyst,ml_engineer,data_scientist]
```

(14) List generated on the basis of your top skills:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help

Are you exceling in patience ? |: y.
The recommended career is : ethical_hacker based on your topskill : patience

Are you exceling in multitasking ? |: y.
The recommended career is : cs_analyst based on your topskill : multitasking

Are you exceling in problem_solving ? |: n.

Are you exceling in multitasking ? |: y.
The recommended career is : computer_scientist based on your topskill : multitasking

Are you exceling in problem_solving ? |: y.
The recommended career is : data_scientist based on your topskill : problem_solving

On the basis of your Topskills :
The list of recommended careers for you is :
[nlp_engineer,software_engineer,software_tester,dba,mobile_expert,rnd_engineer,lecturer,ethical_hacker,cs_analyst,computer_scientist,data_scientist]
```

(15) List generated on the basis of your interests:-

```
SWI-Prolog (AMD64, Multi-threaded, version 8.2.1)
File Edit Settings Run Debug Help

Are you interested in design ? |: n.

Are you interested in networking ? |: n.

Are you interested in research ? |: y.
The recommended career is : cs_analyst based on your interest in research

Are you interested in data ? |: n.

Are you interested in research ? |: y.
The recommended career is : computer_scientist based on your interest in research

Are you interested in data ? |: n.

On the basis of your Interests :
The list of recommended careers for you is :
[app_developer,mobile_expert,rnd_engineer,cs_analyst,computer_scientist]
true.
```


(16) Nothing gets generated if we don't give 'y' at input:-



```

start :-
    nl,
    write('This is the "Expert Career Advisory System" specifically made
for CS/IT people. '), nl,
    write('Some basic inputs will also be provided from our end regarding
various available options. '), nl, nl,
    explain,
    selection.

% i have assumed that all the people using this system are grad/postgrad/phd
CS/IT students.

explain :-      nl,
                ansi_format([bold,fg(black)], 'BASIC ~w', ['INPUTS :=
']),
                nl,nl,
                ansi_format([bold,fg(red)], '1. FOR PSUs ~w', [' :=
']),nl,
                write('a. Companies that are owned by the Union
Government of India or one of the many state or territorial governments or
both are '),
                write('known as PSUs. '),nl,
                write('b. You need to clear highly competitive exams
to get yourself a seat at PSU. '),nl,
                write('c. So your grades and entrance exam results
are considered in PSUs for selection. '),
                nl,nl,
                ansi_format([bold,fg(blue)], '2. FOR HIGHER ~w',
['STUDIES :=']),nl,
                write('a. You can try for GATE if you want to get
admission in a nice Mtech college like IIIT-Delhi :) '),nl,
                write('b. If you are interested in research you can
go for M.S or Phd. '),nl,
                write('c. Grades and Entrance Exam results are
considered for Higher Studies. '),nl,nl,
                ansi_format([bold,fg(green)], '3. FOR JOBS ~w',
[':=']),nl,

```

```

write('a. If you wish to go for Job then you must
have excellent competitive programming skills. '),nl,
write('b. You must know to work on the trending
technologies. '),nl,
write('c. Grades and Entrances are not considered
here. '),nl,
write('d. Your skills, interests and experience will
matter the most when you go for a JOB. '),nl,nl.

```

```

selection:- nl,
ansi_format([bold,fg(black)], 'What you wish to opt for as
your career path ~w', [' := ']),nl,
write('Make sure to make the choices wisely and truly as
advice will be given according to your decisions only !'),
nl,nl,ansi_format([bold,fg(red)], ' PRESS 1 ~w', [' FOR
PSUs ']),nl,
ansi_format([bold,fg(blue)], ' PRESS 2 ~w', [' FOR HIGHER
STUDIES ']),nl,
ansi_format([bold,fg(green)], ' PRESS 3 ~w', [' FOR JOBS
']),nl,nl,
read(Select),
module(Select).

```

```

module(1):- infopsu,
askpsu(_X),!.

```

```

:- discontiguous module/1.

```

```

%psu fact base
psu(isro,65).
psu(cil,65).
psu(nielit,70).
psu(barac,65).
psu(ongc,70).
psu(iocl,70).

```

```
psu(drdo,70).
```

%here i have create a two ladder if else type of logic i have created to narrow the results

```
checkpsu(X):-    between(65,100,X),
                nl,write('You are eligible for all these PSUs :
'),nl,
                is_greater(X)
                ;is_smaller(X),fail.
```

```
checkpsu(X):-    between(0,64,X),nl,
                write('Sorry to say but you are not eligible for PSUs
you may check for Higher Studies OR Job options !'),nl,nl.
```

```
is_greater(X):-    between(70,100,X),
                psu(Y,_),nl,
                write(Y),nl,fail.
```

```
is_smaller(X):-    between(65,69,X),
                Z=65,
                psu(Y,Z),nl,
                write(Y),nl,fail.
```

```
askpsu(_Grade):-nl,write(' What is your previous qualification\'\'ss
grade/percentage (enter out of 100) ? '),nl,
                read(Gradepsu),
                checkpsu(Gradepsu).
```

```
infopsu:-    nl,nl,
                write('If you wish to know about any PSU opportunities for
CS/IT type out its name in lowercase !'),nl,
                read(PSU),nl,
                informationpsu(PSU),!.
```

```
informationpsu(isro):-nl,write('There will be a written MCQ exam followed by  
an interview with a selection ratio of 1:10 .'),nl,nl.
```

```
informationpsu(cil):-nl,write('There will be a written MCQ exam followed by an  
interview with a selection ratio of 1:3 .'),nl,nl.
```

```
informationpsu(barcl):-nl,write('There will be a written MCQ exam followed by  
an interview with a selection ratio of 1:20 .'),nl,nl.
```

```
informationpsu(ongc):-nl,write('You will get an interview call directly if you  
have GATE AIR<150 so prepare hard for GATE exam .'),nl,nl.
```

```
informationpsu(iocl):-nl,write('You will get an interview call directly if you  
have GATE AIR<150 so prepare hard for GATE exam .'),nl,nl.
```

```
informationpsu(drdo):-nl,write('There will be a subjective written exam  
followed by an interview .'),nl,nl.
```

```
informationpsu(drdo):-nl,write('There will be a subjective written exam  
followed by an interview .'),nl,nl.
```

```
informationpsu(nielit):-nl,write('There will be a written MCQ exam followed by  
an interview with a selection ratio of 1:5 .'),nl,nl.
```

```
informationpsu(others):-nl,write('There are many other government and PSUs  
exams that sometimes takes CS/IT students and sometimes not'),nl,nl.
```

```
informationpsu(_):-nl,write('EITHER this PSU dont take CS/IT students OR  
information is not available right now .'),nl,nl.
```

```
module(2):- infohs,  
            askhs(_P),!.
```

```
:- discontiguous module/2.
```

```
%higher studies fact base percentages taken keeping in mind recent trends
hs(mba,90).
hs(mtech,85).
hs(me,80).
hs(phd,80).
hs(ms,85).
hs(jrf,85).
```

```
infohs:-      nl,nl,
               write('If you wish to know about any Higher Studies
opportunities for CS/IT type out its name in lowercase !'),nl,
               read(HS),nl,
               informationhs(HS),!.
```

```
askhs(_Grade):-      nl,write(' What is your previous qualification\'\'ss
grade/percentage (enter out of 100) ? '),nl,
                    read(Gradehs),
                    checkhs(Gradehs).
```

```
checkhs(P):- between(80,100,P),
              nl,write('You are eligible for these Higher Study
Opportunities : '),nl,
              is_good(P);
              is_better(P);
              is_best(P)
              ,fail.
```

```
checkhs(P):- between(0,79,P),nl,
              write('Sorry to say but you are not eligible for
Higher Studies at any place, you may check for Job options ! '),nl,nl.
```

%here i have tried to make things more complex by switching to a triple ladder
if else type to narrow the results

```
is_best(P):- between(90,100,P),  
              hs(Y,_),nl,  
              write(Y),nl,nl,fail.
```

```
is_better(P):-  between(85,89,P),  
                Q=85,  
                hs(Y,Q),nl,  
                write(Y),nl,nl,fail.
```

```
is_good(P):- between(80,84,P),  
              Q=80,  
              hs(Y,Q),nl,  
              write(Y),nl,nl,fail.
```

```
informationhs(mba):-nl,write('This is a change field opportunity. You have to  
appear for CAT and get atleast 95% percentile to grab a top MBA college  

```

```
informationhs(mtech):-nl,write('Students can apply for GATE to get better  
M.Tech opportunities .'),nl,nl.
```

```
informationhs(me):-nl,write('Students can appear in GATE to get better M.E  
opportunities. '),nl,nl.
```

```
informationhs(phd):-nl,write('Postgraduates can appear in UGC-NET to get  
better Phd opportunities .'),nl,nl.
```

```
informationhs(ms):-nl,write('1. For MS in India a good GATE score will land  
you in a nice college for MS .'),nl,
```

```
write('2. For MS abroad you can appear for GRE,  
GMAT, MCAT, LSAT,etc exams to get a nice college .'),nl,nl.
```

```
informationhs(jrf):-nl,write('You can appear for NET-JRF to get a research  
fellowship at some nice place .'),nl,nl.
```

```
informationhs(army):-nl,write('This is a change field opportunity. You can  
appear for NDA,CDS,NCC,AFCAT, and other defense exams .'),nl,nl.
```

```
informationhs(others):-nl,write('There are many Higher Study opportunities  
that you can apply for !'),nl,nl.
```

```
informationhs(_):-nl,write('EITHER mentioned Higher studies dont take CS/IT  
students OR information is not available right now .'),nl,nl.
```

```
module(3):-suggest(_X,_Y).
```

```
%fact base
```

```
%basic(career_name,language,top_skill,interest)
```

```
:- disjoint basic/4.
```

```
basic(computer_scientist,all_languages,multitasking,research).
```

```
basic(data_scientist,python,problem_solving,data).
```

```
basic(data_analytics,python,critical_thinking,data).
```

```
basic(user_experience,markup,editing,design).
```

```
basic(nlp_engineer,r,problem_solving,textdata).
```

```
basic(app_developer,react,logical,mobile_computing).
```

```
basic(project_manager,english,multitasking,research).
```

```
basic(ai_engineer,prolog,problem_solving,ai).
```

```
basic(rnd_engineer,all_languages,multitasking,research).
```

```
basic(dba,sql,leadership,networking).
```



```

basic(full_stack_developer,frontend,creativity,design).
basic(mobile_expert,android,reasoning,mobile_computing).
basic(big_data_engineer,python,problem_solving,data).
basic(lecturer,all_languages,leadership,teaching).
basic(graphic_designer,visuals,creativity,design).
basic(ethical_hacker,sql,patience,networking).
basic(cs_analyst,english,multitasking,research).
basic(software_tester,java,analytical,testing).
basic(software_engineer,backend,analytical,software).
basic(ml_engineer,python,problem_solving,data).

```

```

:- discontiguous suggest1/2.

```

```

suggest(_X,_Y):-
    informationjob,suggest1(_A,_B),suggests(_C,_D),suggesti(_E,_F).

```

```

% on basis of language

```

```

convert_to_list1([Language|Tail]):- retract(recommended1(Language)),
convert_to_list1(Tail).

```

```

convert_to_list1([]).

```

```

suggest1(Career,Language):-
basic(Career,Language,_,_),nl,interested1(Language),write('The recommended
career is : '),
                                write(Career),write(' based on
your language knowledge in '),write(Language),
                                nl,
                                assert(recommended1(Career)),fail.

```

```

informationjob:-    nl,nl,

```

```
write('If you wish to know about any job
description for CS/IT type out its name in lowercase !'),nl,
read(JOB),nl,
infojob(JOB),!.
```

```
infojob(data_analytics):-nl,write('Data analytics is the science of analyzing
raw data in order to make conclusions about that information. '),nl,nl.
```

```
infojob(user_experience):-nl,write('A user experience designer is generally a
jack of all trades in the design process centered on users. '),nl,nl.
```

```
infojob(nlp_engineer):-nl,write('NLP Engineer responsibilities include
transforming natural language data into useful features using NLP techniques
to feed classification algorithms. '),nl,nl.
```

```
infojob(ai_engineer):-nl,write('An AI engineer builds AI models using machine
learning algorithms and deep learning neural networks to draw business
insights '),nl,nl.
```

```
infojob(software_engineer):-nl,write('A software engineer applies mathematical
analysis and the principles of computer science in order to design and develop
computer software '),nl,nl.
```

```
infojob(software_tester):-nl,write('Software Testers are responsible for the
quality of software development and deployment '),nl,nl.
```

```
infojob(dba):-nl,write('Your responsibility as a database administrator (DBA)
will be the performance, integrity and security of a database. '),nl,nl.
```

```
infojob(full_stack_developer):-nl,write('A full stack developer is an engineer
who can handle all the work of databases, servers, systems engineering, and
clients. '),nl,nl.
```

```
infojob(mobile_expert):-nl,write('The goal of the Mobile Expert is to create
an outstanding buying experience for the customer and a positive a team
environment. '),nl,nl.
```

```
infojob(app_developer):-nl,write('Application Developer is responsible for
developing and modifying source code for software applications. '),nl,nl.
```

```
infojob(rnd_engineer):-nl,write('A research and development job allows
graduate engineers to use their skills to push the frontiers of science
forward. '),nl,nl.
```

```
infojob(lecturer):-nl,write('Lecturer requires lot of research and hard work
for a great academic profession. '),nl,nl.
```

```
infojob(graphic_designer):-nl,write('Graphic designers create visual concepts,
using computer software or by hand, to communicate ideas that inspire, inform,
and captivate consumers. '),nl,nl.
```

```
infojob(ethical_hacker):-nl,write('Ethical hackers know how to find and
exploit vulnerabilities and weaknesses in various systems. They break into
systems legally and ethically. '),nl,nl.
```

```
infojob(cs_analyst):-nl,write('System analyst is a good position for those
with interest in computer science, information technology, and
management. '),nl,nl.
```

```
infojob(project_manager):-nl,write('A project manager is responsible to handle
the project from planning to completion. '),nl,nl.
```

```
infojob(ml_engineer):-nl,write('Machine learning engineers feed data into
models defined by data scientists. '),nl,nl.
```

```
infojob(big_data_engineer):-nl,write('A Big Data Engineer is a person who
creates and manages a companys Big Data infrastructure and tools, and is
someone that knows how to get results from vast amounts of data
quickly '),nl,nl.
```

```
infojob(data_scientist):-nl,write('Data scientists are a mix of
mathematicians, trend-spotters, and computer scientists. '),nl,nl.
```

```
infojob(computer_scientist):-nl,write('Computer scientists work in the
development of mathematical models for working with computer-based
systems. '),nl,nl.
```

```
infojob(_):-nl,write('EITHER this Job profile is not for CS/IT students OR
information is not available right now . '),nl,nl.
```

```
suggest1(_,_) :- nl,nl,write('On the basis of your coding skills
: '),nl,convert_to_list1(List1),nl,
                    write('The list of recommended careers for you is
: '),nl,nl, write(List1),write(' '), nl.
```

```
interested1(Language):-nl,write(' Are you having a strong command over
'),write(Language),write(' ? '),read(R),nl,R=y.
```

```
%on basis of topskills
```

```
convert_to_list2([Topskill|Tail]):- retract(recommended1(Topskill)),
convert_to_list2(Tail).
```

```
convert_to_list2([]).
```

```

suggests(Career,Topskill):-
basic(Career,_,Topskill,_),nl,interesteds(Topskill),write('The recommended
career is : '),

                                write(Career),write(' based on
your topskill : '),write(Topskill),nl,

                                assert(recommendedl(Career)),fail.

```

```

suggests(_,_) :- nl,nl,write('On the basis of your Topskills :'),nl,
convert_to_list2(List2),nl,

                                write('The list of recommended careers for you
is :'),nl,nl, write(List2),write(' '), nl.

```

```

interesteds(Topskill):-nl,write(' Are you exceling in
'),write(Topskill),write(' ? '),read(R),nl,R=y.

```

%on basis of Interests

```

convert_to_list3([Interest|Tail]):- retract(recommendedi(Interest)),
convert_to_list3(Tail).

```

```

convert_to_list3([]).

```

```

suggesti(Career,Interest):-
basic(Career,_,_,Interest),nl,interestedi(Interest),write('The recommended
career is : '),

                                write(Career),write(' based on
your interest in '),write(Interest),nl,

                                assert(recommendedi(Career)),fail.

```

```

suggesti(_,_) :- nl,nl,write('On the basis of your Interests
:'),nl,convert_to_list3(List3),nl,

                                write('The list of recommended careers for you is
:'),nl,nl, write(List3),write(' '), nl.

```

```
interestedi(Interest):-nl,write('Are you interested in  
' ),write(Interest),write(' ? '),read(R),nl,R=y.
```