تخصصي
EXPERT SYSTEM
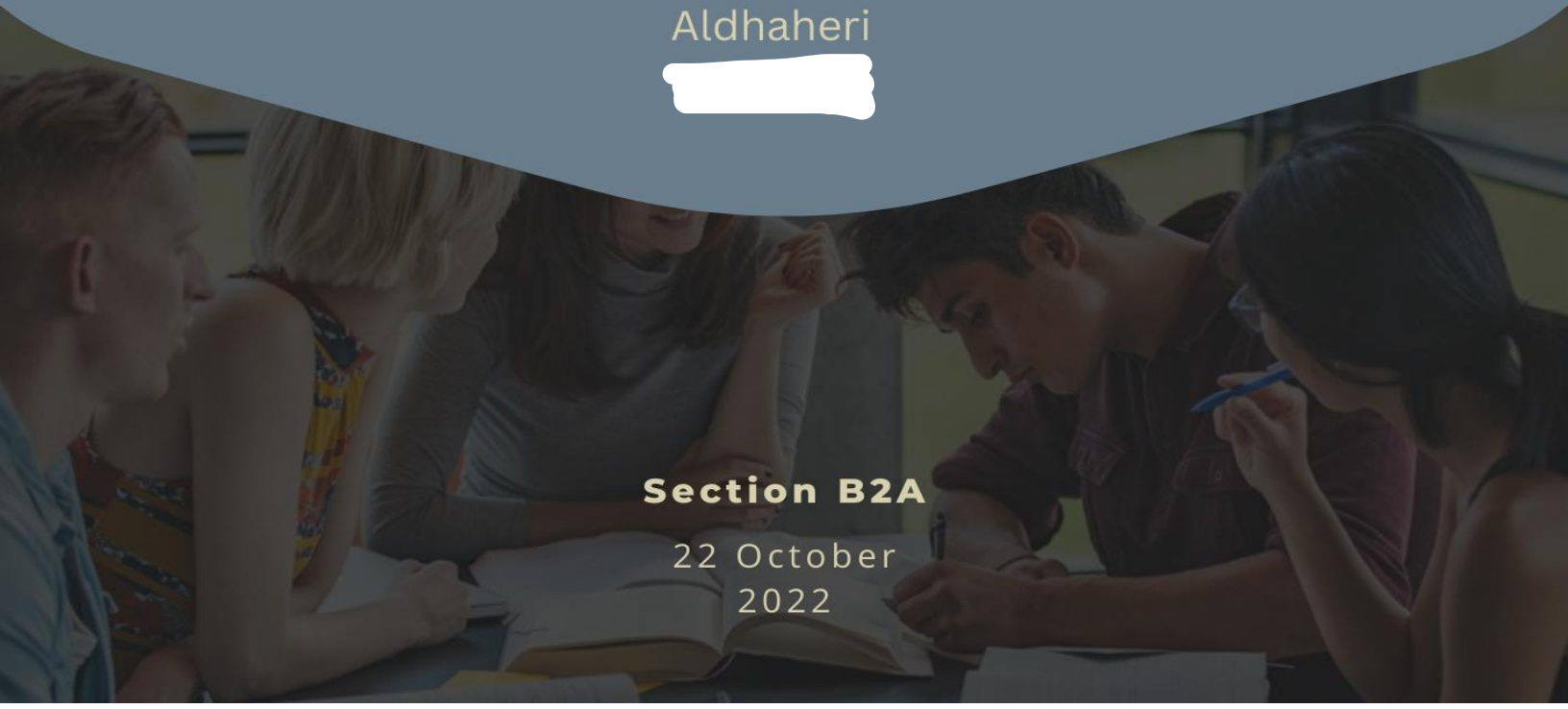
Anfal Sultan
Alshehri(leader)

Shahad Omar
Bin Kulaib

Kawther Kamal
Aldhaheri

Section B2A

22 October
2022

Contents

1. Task Assignment

   1.1. The tasks performed for this project.

   a. Collecting the data "Universities information".
   b. Documenting .
   c. Flowchart drawing.
   d. Coding.
   e. Testing .

   1.2. Each group member's percentage contribution to each task.

   All team members worked together on every task .

2. Introduction

2.1. Purpose of the Expert system

The system aims to help anyone who wants to study in computing majors in Saudi Arabia universities to discover the obtainable universities .
This system will assists the students by asking them to enter their desired major , where they live , their gender , and what degree they are looking for. The system will display to the student the available universities according to their input.

2.2. The users and clients, of the system
- Student who want to study computing major in Saudi universities .

2.3. The Expert.
Assist students in determining available universities in computer specializations, as a specific degree in Saudi Arabia universities .

2.4. The Resources that will be used
Saudi Arabia universities official website.

3. Body

3.1. A list of rules

R1. If the Student was :
1. Want **BACHELOR** degree
2. From **Tabuk** city
3. Their gender is **female/male**
4. They want **Computer science** major

Then The system will recommend them Tabuk University

R2. If the Student was :
1. Want **BACHELOR** degree
2. From **master** city
3. Their gender is **female/male**
4. They want **AI** major

Then The system will recommend them Tabuk University

R3. If the Student was :
1. Want **master** degree
2. From **Tabuk** city
3. Their gender is **female/male**
4. They want **Cyber security** major

Then The system will recommend them Tabuk University

R4. If the Student was :
1. Want **master** degree
2. From **Tabuk** city
3. Their gender is **female/male**
4. They want **Data science** major

Then The system will recommend them Tabuk University

R5.   If the Student was :

1.Want **BACHELOR** degree

2.From **Arar** city

3.Their gender is **female/male**

4. They want **Computer science** major

Then The system will recommend to them Northern Borders University

R6.   If the Student was :

1.Want **Diploma** degree

2.From **Hail** city

3.Their gender is **female/male**

4. They want **Cyber security** major

Then The system will recommend them University of Hail

R7.   If the Student was :

1.Want **BACHELOR** degree

2.From **Hail** city

3.Their gender is **female/male**

4. They want **Computer science** major

Then The system will recommend to them University of Hail

R8.   If the Student was :

1.Want **master** degree

2.From **Hail** city

3.Their gender is **female/male**

4. They want **AI** major

Then The system will recommend them University of Hail

R9.   If the Student was :

1. Want **master** degree
2. From **Hail** city
3. Their gender is **female/male**
4. They want **Cyber security** major

Then The system will recommend to them University of Hail

R10.   If the Student was :

1. Want **Diploma** degree
2. From **Al-Jawf** city
3. Their gender is **female/male**
4. They want **Networking** major

Then The system will recommend them Al Jawf University

R11.   If the Student was :

1. Want **Diploma** degree
2. From **Al-Jawf** city
3. Their gender is **female/male**
4. They want **Data science** major

Then The system will recommend them Al Jawf University

R12.   If the Student was :

1. Want **BACHELOR** degree
2. From **Al-Jawf** city
3. Their gender is **female/male**
4. They want **Computer science** major

Then The system will recommend them Al Jawf University

R13.   If the Student was :
  1.Want **BACHELOR** degree
  2.From **Al-Jawf** city
  3.Their gender is **female/male**
  4. They want **Software engineer** major
Then The system will recommend them Al Jawf University

R14.   If the Student was :
  1.Want **master** degree
  2.From **Al-Jawf** city
  3.Their gender is **female/male**
  4. They want **Data science** major
Then The system will recommend them Al Jawf University

R15.   If the Student was :
  1.Want **master** degree
  2.From **Al-Jawf** city
  3.Their gender is **female/male**
  4. They want **AI** major
Then The system will recommend them Al Jawf University

R16.   If the Student was :
  1.Want **master** degree
  2.From **Al-Jawf** city
  3.Their gender is **female/master**
  4. They want **Cyber security** major
Then The system will recommend them Al Jawf University

R17.   If the Student was :
  1.Want **BACHELOR** degree
  2.From **Najran** city
  3.Their gender is **female/male**
  4. They want **Computer science** major
Then The system will recommend them Najran University

R18.   If the Student was :

1. Want **BACHELOR** degree

2. From **Al-Baha** city

3. Their gender is **female/male**

4. They want **Computer science** major

Then The system will recommend them Al-Baha University

R19.   If the Student was :

1. Want **master** degree

2. From **Al-Baha** city

3. Their gender is **female/male**

4. They want **AI** major

Then The system will recommend them Al-Baha University

R20.   If the Student was :

1. Want **master** degree

2. From **Al-Baha** city

3. Their gender is **male**

4. They want **Cyber security** major

Then The system will recommend them Al-Baha University

R21.   If the Student was :

1. Want **Diploma** degree

2. From **Jazan** city

3. Their gender is **female/male**

4. They want **Computer science** major

Then The system will recommend them Jazan University

R22.   If the Student was :

1. Want **BACHELOR** degree

2. From **Jazan** city

3. Their gender is **female/male**

4. They want **Computer science** major

Then The system will recommend them Jazan University

R23. If the Student was :
1. Want **Diploma** degree
2. From **Abha** city
3. Their gender is **male**
4. They want **Networking** major

Then The system will recommend them King Khalid University

R24. If the Student was :
1. Want **Diploma** degree
2. From **Abha** city
3. Their gender is **female/male**
4. They want **Programming** major

Then The system will recommend them King Khalid University

R25.   If the Student was :
1. Want **BACHELOR** degree
2. From **Abha** city
3. Their gender is **female/male**
4. They want **Computer science** major

Then The system will recommend them King Khalid University

R26. If the Student was :
1. Want **master** degree
2. From **Abha** city
3. Their gender is **female/male**
4. They want **Computer science** major

Then The system will recommend them King Khalid University

R27.   If the Student was :
1. Want **master** degree
2. From **Abha** city
3. Their gender is **female/male**
4. They want **Cyber security** major

Then The system will recommend them King Khalid University

R28. If the Student was :
1. Want **master** degree
2. From **Abha** city
3. Their gender is **female/male**
4. They want **Data science** major

Then The system will recommend them King Khalid University

R29. If the Student was :
1. Want **Bachelor** degree
2. From **Eastern** region
3. Their gender is **male / female**
4. They want **artificial intelligence** major

Then The system will recommend them imam Abdulrahman bin Faisal university

R30. If the Student was :
1. Want **master** degree
2. From **Eastern** region
3. Their gender is **male / female**
4. They want **artificial intelligence** major

Then The system will recommend them King Fahd University of Petroleum & Minerals

R31. If the Student was :
1. Want **Bachelor** degree
2. From **Eastern** region
3. Their gender is **male / female**
4. They want **Cybersecurity** major

Then The system will recommend them
imam Abdulrahman bin Faisal university
University of Hafr Al Batin

R32. If the Student was :

1. Want **Master** degree
2. From **Eastern** region
3. Their gender is **male / female**
4. They want **Cybersecurity** major

Then The system will recommend them

King Fahd University of Petroleum & Minerals

King Faisal University

R33.   If the Student was :

1. Want **Bachelor** degree
2. From **Eastern** region
3. Their gender is **male / female**
4. They want **Computer Sciences** major

Then The system will recommend them

King Fahd University of Petroleum & Minerals

prince Mohammad bin Fahd university

King Faisal University

imam Abdulrahman bin Faisal university

University of Hafr Al Batin

R34. If the Student was :

1. Want **Master** degree
2. From **Eastern** region
3. Their gender is **male / female**
4. They want **Computer Sciences** major

Then The system will recommend them

King Fahd University of Petroleum & Minerals

King Faisal University

imam Abdulrahman bin Faisal university

R35. If the Student was :
1.Want **Bachelor** degree
2.From **Eastern** region
3.Their gender is **male / female**
4. They want **Software Engineering** major
Then The system will recommend them
King Fahd University of Petroleum & Minerals
prince Mohammad bin Fahd university
University of Hafr Al Batin

R36. If the Student was :
1.Want **Master** degree
2.From **Eastern** region
3.Their gender is **male / female**
4. They want **Software Engineering** major
Then The system will recommend them
King Fahd University of Petroleum & Minerals

R37. If the Student was :
1.Want **Bachelor** degree
2.From **Eastern** region
3.Their gender is **male / female**
4. They want **Networking** major
Then The system will recommend them
King Faisal University

R38. If the Student was :
1.Want **Master** degree
2.From **Eastern** region
3.Their gender is **male / female**
4. They want **Networking** major
Then The system will recommend them
King Fahd University of Petroleum & Minerals

R39. If the Student was :
1.Want **Doctorate** degree
2.From **Eastern** region
3.Their gender is **male / female**
4. They want **Networking** major
Then The system will recommend them
King Fahd University of Petroleum & Minerals

R40. If the Student was :

1.Want **Bachelor** degree
2.From **Qassim** region
3.Their gender is **male / female**
4. They want **Computer Sciences** major
Then The system will recommend them
Qassim university

R41. If the Student was :
1.Want **Master** degree
2.From **Qassim** region
3.Their gender is **male / female**
4. They want **Computer Sciences** major
Then The system will recommend them
Qassim university

R42. If the Student was :
1.Want **Master** degree
2.From **Qassim** region
3.Their gender is **male / female**
4. They want **Networking** major
Then The system will recommend them
Qassim university

R43. If the Student was :

    1.Want **Bachelor** degree

    2.From **Riyadh** region

    3.Their gender is **male / female**

    4. They want **Computer Sciences** major

Then The system will recommend them

imam Muhammad ibn Saud Islamic university

prince Sattam bin Abdulaziz university

king Saud university

MajmaahUniversity

Shaqra University

R44. If the Student was 1.Want **Master** degree

    2.From **Riyadh** region

    3.Their gender is **male / female**

    4. They want **Computer Sciences** major

Then The system will recommend them

imam Muhammad ibn Saud Islamic university

king Saud university

R45. If the Student was :

    1.Want **Doctorate** degree

    2.From **Riyadh** region

    3.Their gender is **male / female**

    4. They want **Computer Sciences** major

Then The system will recommend them

king Saud university

R46. If the Student was :

    1.Want **Bachelor** degree

    2.From **Riyadh** region

    3.Their gender is **male / female**

    4. They want **Software Engineering** major

Then The system will recommend them

prince Sattam bin Abdulaziz university

king Saud university

Shaqra University

R47. If the Student was :
1. Want **Master** degree
2. From **Riyadh** region
3. Their gender is **male / female**
4. They want **Software Engineering** major

Then The system will recommend them king Saud university

R48. If the Student was :
1. Want **Doctorate** degree
2. From **Riyadh** region
3. Their gender is **male / female**
4. They want **Software Engineering** major

Then The system will recommend them king Saud university

R49. If the Student was :
1. Want **master** degree
2. From **Riyadh** region
3. Their gender is **male / female**
4. They want **artificial intelligence** major

Then The system will recommend them prince Sattam bin Abdulaziz university

R50. If the Student was :
1. Want **master** degree
2. From **Riyadh** region
3. Their gender is **male / female**
4. They want **Data Science** major

Then The system will recommend them prince Sattam bin Abdulaziz university

R51. If the Student was :
  1. Want **master** degree
  2. From **Riyadh** region
  3. Their gender is **male / female**
  4. They want **Cybersecurity** major
Then The system will recommend them prince Sattam bin Abdulaziz university

R52. If the Student was :
  1. Want **Diploma** degree
  2. From **Riyadh** city
  3. Their gender is **male**
  4. They want **Programming** major
Then The system will recommend them MajmaahUniversity

R53. If the Student was :
  1. Want **Diploma** degree
  2. From **Riyadh** city
  3. Their gender is **female**
  4. They want **Programming** major
Then The system will recommend them Princess Nourah Bint Abdulrahman University

R54. If the Student was :
  1. Want **Bachelor** degree
  2. From **Riyadh** city
  3. Their gender is **female**
  4. They want **Computer Science** major
Then The system will recommend them Princess Nourah Bint Abdulrahman University

R55.　　If the Student was :
1. Want **Bachelor** degree
2. From **Riyadh** city
3. Their gender is **female**
4. They want **Data analysis** major

Then The system will recommend them Princess Nourah Bint Abdulrahman University

R56.　　If the Student was :
1. Want **Bachelor** degree
2. From **Riyadh** city
3. Their gender is **female**
4. They want **Cyber Security** major

Then The system will recommend them Princess Nourah Bint Abdulrahman University

R57.　　If the Student was :
1. Want **Bachelor** degree
2. From **Riyadh** city
3. Their gender is **female**
4. They want **Artificial intelligence** major

Then The system will recommend them Princess Nourah Bint Abdulrahman University

R58.　　If the Student was :
1. Want **Master** degree
2. From **Riyadh** city
3. Their gender is **female**
4. They want **Data analysis** major

Then The system will recommend them Princess Nourah Bint Abdulrahman University

R59.   If the Student was :
1.Want **Bachelor** degree
2.From **Jeddah** city
3.Their gender is **male / female**
4. They want **Computer science** major
Then The system will recommend them King Abdulaziz University

R60.   If the Student was :
1.Want **Master** degree
2.From **Jeddah** city
3.Their gender is **male / female**
4. They want **Computer science** major
Then The system will recommend them King Abdulaziz University, University Of Jeddah

R61.   If the Student was :
1.Want **Bachelor** degree
2.From **Jeddah** city
3.Their gender is **female**
4. They want **Computer science** major
Then The system will recommend them University Of Jeddah , King Abdulaziz University

R62.   If the Student was :
1.Want **Bachelor** degree
2.From **Jeddah** city
3.Their gender is **female**
4. They want **Cyber Security** major
Then The system will recommend them University Of Jeddah

R63.   If the Student was :
        1.Want **Bachelor** degree
        2.From **Jeddah** city
        3.Their gender is **female**
        4. They want **Software Engineering** major
Then The system will recommend them University Of Jeddah

R64.   If the Student was :
        1.Want **Bachelor** degree
        2.From **Jeddah** city
        3.Their gender is **female**
        4. They want **Computer & Network Engineering** major
Then The system will recommend them University Of Jeddah

R65.   If the Student was :
        1.Want **Master** degree
        2.From **Jeddah** city
        3.Their gender is **male / female**
        4. They want **Data analysis** major
Then The system will recommend them University Of Jeddah

R66.   If the Student was :
        1.Want **Master** degree
        2.From **Jeddah** city
        3.Their gender is **male / female**
        4. They want **Cyber Security** major
Then The system will recommend them University Of Jeddah

R67.   If the Student was :
1.Want **Bachelor** degree

2.From **Medina** city

3.Their gender is **male / female**

4. They want **Computer Science** major

Then The system will recommend them Taibah University

R68.   If the Student was :
1.Want **Master** degree

2.From **Medina** city

3.Their gender is **male / female**

4. They want **Computer Science** major

Then The system will recommend them Taibah University

R69.   If the Student was :
1.Want **Bachelor** degree

2.From **Medina** city

3.Their gender is **male / female**

4. They want **Computer Science** major

Then The system will recommend them Islamic University of Madinah

R70.   If the Student was :
1.Want **Master** degree

2.From **Medina** city

3.Their gender is **male / female**

4. They want **Data Science** major

Then The system will recommend them Islamic University of Madinah

R71.   If the Student was :
1.Want **Bachelor** degree

2.From **Taif** city

3.Their gender is **male / female**

4. They want **Computer Sciences** major

Then The system will recommend them Taif University

R72.　　If the Student was :
1.Want **Bachelor** degree
2.From **Makkah** city
3.Their gender is **male / female**
4. They want **Computer Sciences** major

Then The system will recommend them Umm Al - Qura University

R73.　　If the Student was :
1.Want **Master** degree
2.From **Makkah** city
3.Their gender is **male / female**
4. They want **Artificial Intelligence** major

Then The system will recommend them Umm Al - Qura University
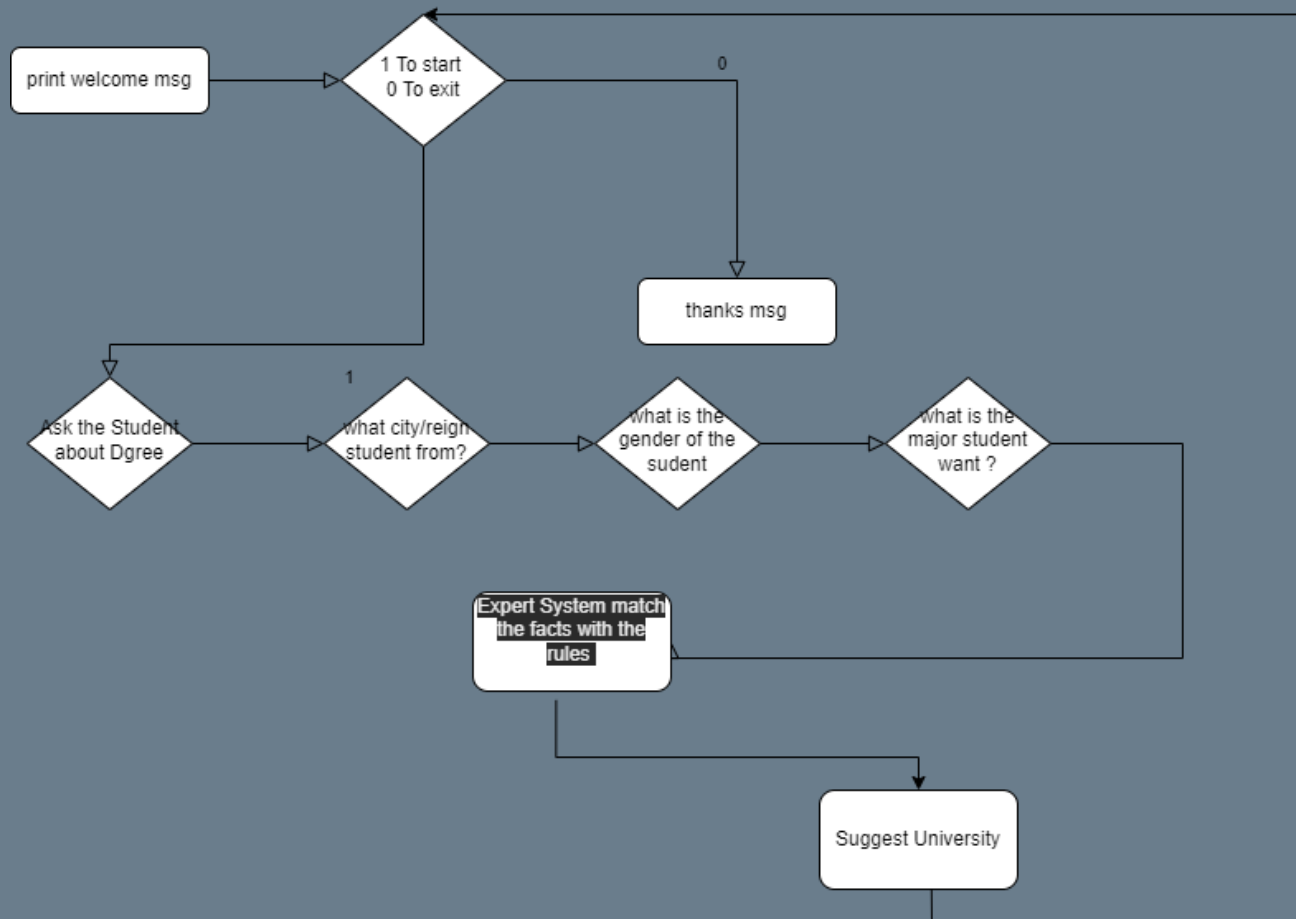
R74.　　If the Student was :
1.Want **Master** degree
2.From **Makkah** city
3.Their gender is **male / female**
4. They want **Computer Sciences** major

Then The system will recommend them Umm Al - Qura University

3.2. The technique used to acquire knowledge from the system.

The system will take four input from the user and according to user's input the system will match the student with the output "appropriate universities". In this project we use a forward chaining.

3.3. The system's flowchart

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Source code

```python
from experta import *
class uni(Fact):
  pass
#================TABUK============================
class myUniversity(KnowledgeEngine):
  @Rule(OR(AND( uni(D=('b') ),  uni(city=('t')),uni(gender=('f')),uni(major=(
'cs'))),AND( uni(D=('b') ),  uni(city=('t')),uni(gender=('m')),uni(major=('cs
'))),AND( uni(D=('m') ),  uni(city=('t')),uni(gender=('f')),uni(major=('ai'))
),AND( uni(D=('m') ),  uni(city=('t')),uni(gender=('m')),uni(major=('ai'))),A
ND( uni(D=('m') ),  uni(city=('t')),uni(gender=('f')),uni(major=('s'))),AND(
uni(D=('m') ),  uni(city=('t')),uni(gender=('male')),uni(major=('s'))),AND( u
ni(D=('m') ),  uni(city=('t')),uni(gender=('f')),uni(major=('d'))),AND( uni(D
=('m') ),  uni(city=('t')),uni(gender=('f')),uni(major=('d')))))
  def Tabuk_University(self):
    print("Tabuk University")



#================Arar============================
  @Rule(OR(AND( uni(D=('b') ),  uni(city=('ar')),uni(gender=('f')),uni(major=
('cs'))),AND( uni(D=('b') ),  uni(city=('ar')),uni(gender=('m')),uni(major=('
cs')))))
  def Northern_Borders_University(self):
    print("Northern Boroders University")



#================hail============================
  @Rule(OR(AND( uni(D=('b') ),  uni(city=('h')),uni(gender=('f')),uni(major=(
'cs'))),AND( uni(D=('b') ),  uni(city=('h')),uni(gender=('m')),uni(major=('cs
'))),AND( uni(D=('m') ),  uni(city=('h')),uni(gender=('f')),uni(major=('ai'))
),AND( uni(D=('m') ),  uni(city=('h')),uni(gender=('m')),uni(major=('ai'))),A
ND( uni(D=('m') ),  uni(city=('h')),uni(gender=('f')),uni(major=('s'))),AND(
uni(D=('m') ),  uni(city=('h')),uni(gender=('m')),uni(major=('s'))),AND( uni(
D=('d') ),  uni(city=('h')),uni(gender=('f')),uni(major=('s'))),AND( uni(D=('
d') ),  uni(city=('h')),uni(gender=('m')),uni(major=('s')))))
  def University_of_Hail(self):
    print("University of Hail")



#================jwaf============================
  @Rule(OR(AND( uni(D=('d') ),  uni(city=('j')),uni(gender=('f')),uni(major=(
'n'))),AND( uni(D=('d') ),  uni(city=('j')),uni(gender=('m')),uni(major=('n')
)),AND( uni(D=('d') ),  uni(city=('j')),uni(gender=('f')),uni(major=('d'))),A
ND( uni(D=('d') ),  uni(city=('j')),uni(gender=('m')),uni(major=('d'))),AND(
uni(D=('b') ),  uni(city=('j')),uni(gender=('f')),uni(major=('cs'))),AND( uni
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(D=('b') ),  uni(city=('j')),uni(gender=('m')),uni(major=('cs'))),AND( uni(D=
('b') ),  uni(city=('j')),uni(gender=('f')),uni(major=('se'))),AND( uni(D=('b
') ),  uni(city=('j')),uni(gender=('m')),uni(major=('se'))),AND( uni(D=('m')
),  uni(city=('j')),uni(gender=('f')),uni(major=('d'))),AND( uni(D=('m') ),
uni(city=('j')),uni(gender=('m')),uni(major=('d'))),AND( uni(D=('m') ),  uni(
city=('j')),uni(gender=('f')),uni(major=('ai'))),AND( uni(D=('m') ),  uni(cit
y=('j')),uni(gender=('m')),uni(major=('ai'))),AND( uni(D=('m') ),  uni(city=(
'j')),uni(gender=('f')),uni(major=('s'))),AND( uni(D=('m') ),  uni(city=('j')
),uni(gender=('m')),uni(major=('s'))))))
    def Al_Jawf_University(self):
        print("Al Jawf University")


#=================Najran===========================
    @Rule(OR(AND( uni(D=('b') ),  uni(city=('n')),uni(gender=('f')),uni(major=(
'cs'))),AND( uni(D=('b') ),  uni(city=('n')),uni(gender=('m')),uni(major=('cs
')))))
    def Najran_University(self):
        print("Najran University")


#==========Baha===================
    
    @Rule(OR(AND( uni(D=('b') ),  uni(city=('ba')),uni(gender=('f')),uni(major=
('cs'))),AND( uni(D=('b') ),  uni(city=('ba')),uni(gender=('m')),uni(major=('
cs'))),AND(uni(D=('m')),uni(city=('ba')),uni(gander=('f')),uni(major=('ai')))
,AND(uni(D=('m')),uni(city=('ba')),uni(gander=('m')),uni(major=('ai'))),AND(u
ni(D=('m')),uni(city=('ba')),uni(gander=('m')),uni(major=('s')))))
    def AlBaha_University(self):
        print("Al-Baha University")


#=================jazan===========================
    @Rule(OR(AND( uni(D=('d') ),  uni(city=('jz')),uni(gender=('f')),uni(major=
('cs'))),AND( uni(D=('d') ),  uni(city=('jz')),uni(gender=('m')),uni(major=('
cs'))),AND( uni(D=('b') ),  uni(city=('jz')),uni(gender=('f')),uni(major=('cs
'))),AND( uni(D=('b') ),  uni(city=('jz')),uni(gender=('m')),uni(major=('cs')
))))
    def Jazan_University(self):
        print("Jazan University")


#=================abha===========================
    @Rule(OR(AND( uni(D=('d') ),  uni(city=('ab')),uni(gender=('m')),uni(major=
('n'))),AND( uni(D=('d') ),  uni(city=('ab')),uni(gender=('f')),uni(major=('p
'))),AND( uni(D=('d') ),  uni(city=('ab')),uni(gender=('m')),uni(major=('p'))
),AND( uni(D=('b') ),  uni(city=('ab')),uni(gender=('f')),uni(major=('cs'))),
AND( uni(D=('b') ),  uni(city=('ab')),uni(gender=('m')),uni(major=('cs'))),AN
D( uni(D=('m') ),  uni(city=('ab')),uni(gender=('f')),uni(major=('cs'))),AND(
 uni(D=('m') ),  uni(city=('ab')),uni(gender=('m')),uni(major=('cs'))),AND( u
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ni(D=('m') ),  uni(city=('ab')),uni(gender=('f')),uni(major=('s'))),AND( uni(
D=('m') ),  uni(city=('ab')),uni(gender=('m')),uni(major=('s'))),AND( uni(D=(
'm') ),  uni(city=('ab')),uni(gender=('f')),uni(major=('d'))),AND( uni(D=('m'
) ),  uni(city=('ab')),uni(gender=('m')),uni(major=('d'))))))
    def King_Khalid_University(self):
      print("King Khalid University")


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#================Qassim============================
    @Rule(OR(AND(uni(gender=('m')), uni(major=('cs')), uni(city=('q')),uni(D=('
b'))), AND( uni(gender=('f')), uni (major=('cs')), uni(city=('q')),uni(D=('b'
))) ,AND( uni(gender=('m')), uni (major=('cs')), uni(city=('q')),uni(D=('m'))
),AND( uni(gender=('f')), uni (major=('cs')), uni(city=('q')),uni(D=('m'))),A
ND( uni(gender=('m')), uni (major=('n')), uni(city=('q')),uni(D=('m'))),AND(
uni(gender=('f')), uni (major=('n')),  uni(city=('q')),uni(D=('m')))))
    def QassimUni(self):
      print("Qassim university")


#================#Eastern Province============================
    @Rule(OR(AND(uni(gender=('m')), uni(major=('ai')),uni(city=('e')),uni(D=('b
'))),AND( uni(gender=('f')), uni (major=('ai')),  uni(city=('e')),uni(D=('b')
)),AND( uni(gender=('m')), uni (major=('cs')),  uni(city=('e')),uni(D=('b')))
,AND( uni(gender=('f')), uni (major=('cs')),   uni(city=('e')),uni(D=('b'))),
AND( uni(gender=('m')), uni (major=('s')),  uni(city=('e')),uni(D=('b'))),AND
( uni(gender=('f')), uni (major=('s')),  uni(city=('e')),uni(D=('b'))),AND( u
ni(gender=('m')), uni (major=('cs')),  uni(city=('e')),uni(D=('m'))),AND( uni
(gender=('f')), uni (major=('cs')),       uni(city=('e')),uni(D=('m')))))
    def ima_Abdulrahman(self):
      print("imam Abdulrahman bin Faisal university")

    @Rule(OR(AND( uni(gender=('m')), uni (major=('ai')), uni(city=('e')),uni(D=
('m'))), AND( uni(gender=('f')), uni (major=('ai')),  uni(city=('e')),uni(D=(
'm'))),AND( uni(gender=('m')), uni (major=('s')),  uni(city=('e')),uni(D=('m'
))),AND( uni(gender=('f')), uni (major=('s')),   uni(city=('e')),uni(D=('m'))
),AND( uni(gender=('m')), uni (major=('e')),   uni(city=('e')),uni(D=('m'))),
AND( uni(gender=('f')), uni (major=('e')),  uni(city=('e')),uni(D=('m'))),AND
( uni(gender=('m')), uni (major=('n')),  uni(city=('e')),uni(D=('m'))),AND( u
ni(gender=('f')), uni (major=('n')),  uni(city=('e')),uni(D=('m'))),AND( uni(
gender=('m')), uni (major=('n')),  uni(city=('e')),uni(D=('p'))),AND( uni(gen
der=('f')), uni (major=('n')), uni(city=('e')),uni(D=('p'))),AND( uni(gender=
('m')), uni (major=('cs')),  uni(city=('e')),uni(D=('b'))),AND( uni(gender=('
f')), uni (major=('cs')),   uni(city=('e')),uni(D=('b'))),AND( uni(gender=('m
')), uni (major=('cs')),  uni(city=('e')),uni(D=('m'))),AND( uni(gender=('f')
), uni (major=('cs')),        uni(city=('e')),uni(D=('m'))),AND( uni(gender=('
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m')), uni (major=('e')), uni(city=('e')),uni(D=('b'))),AND( uni(gender=('f'))
, uni (major=('e')), uni(city=('e')),uni(D=('b')))))
    def King_Fahd_University(self):
        print("King Fahd University of Petroleum & Minerals")




    @Rule(OR(AND( uni(gender=('m')), uni (major=('s')),  uni(city=('e')),uni(D=
('b'))),AND( uni(gender=('f')), uni (major=('s')),  uni(city=('e')),uni(D=('b
'))),AND( uni(gender=('m')), uni (major=('e')), uni(city=('e')),uni(D=('b')))
,AND( uni(gender=('f')), uni (major=('e')), uni(city=('e')),uni(D=('b'))),AND
( uni(gender=('m')), uni (major=('cs')),  uni(city=('e')),uni(D=('b'))),AND(
uni(gender=('f')), uni (major=('cs')),   uni(city=('e')),uni(D=('b')))))
    def University_of_Hafr_AlBatin(self):
        print("University of Hafr Al Batin")




    @Rule(OR(AND( uni(gender=('m')), uni (major=('cs')),  uni(city=('e')),uni(D
=('b'))),AND( uni(gender=('f')), uni (major=('cs')),   uni(city=('e')),uni(D=
('b'))),AND( uni(gender=('m')), uni (major=('e')), uni(city=('e')),uni(D=('b'
))),AND( uni(gender=('f')), uni (major=('e')), uni(city=('e')),uni(D=('b'))))
)
    def prince_Mohammad_bin_Fahd_university(self):
        print("prince Mohammad bin Fahd university ")




    @Rule(OR(AND( uni(gender=('m')), uni (major=('n')),  uni(city=('e')),uni(D=
('b'))),AND( uni(gender=('f')), uni (major=('n')), uni(city=('e')),uni(D=('b'
))),AND( uni(gender=('m')), uni (major=('cs')),  uni(city=('e')),uni(D=('b'))
),AND( uni(gender=('f')), uni (major=('cs')),   uni(city=('e')),uni(D=('b')))
,AND( uni(gender=('m')), uni (major=('cs')),  uni(city=('e')),uni(D=('m'))),A
ND( uni(gender=('f')), uni (major=('cs')),        uni(city=('e')),uni(D=('m'))
),AND( uni(gender=('m')), uni (major=('s')),  uni(city=('e')),uni(D=('m'))),A
ND( uni(gender=('f')), uni (major=('s')),   uni(city=('e')),uni(D=('m')))))
    def King_Faisal_University (self):
        print("King Faisal University  ")




#----------------------------------------------------------------------
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#----------------------------------------------------------------------
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#===============riaydh===========================
#riaydh
```

```python
    @Rule(OR(AND( uni(gender=('m')), uni (major=('cs')),    uni(city=('r')),uni(
D=('b'))),AND( uni(gender=('f')), uni (major=('cs')),   uni(city=('r')),uni(D=
('b'))),AND( uni(gender=('m')), uni (major=('cs')),   uni(city=('r')),uni(D=('
m'))),AND( uni(gender=('f')), uni (major=('cs')), uni(city=('r')),uni(D=('m'))
)))))
    def imam_Muhammad_Saud(self):
        print("imam Muhammad ibn Saud Islamic university    ")


    @Rule(OR(AND( uni(gender=('m')), uni (major=('cs')), uni(city=('r')),uni(D=
('p'))),AND( uni(gender=('f')), uni (major=('cs')),    uni(city=('r')),uni(D=
('p'))),AND( uni(gender=('m')), uni (major=('e')),   uni(city=('r')),uni(D=('m
'))),AND( uni(gender=('f')), uni (major=('e')),    uni(city=('r')),uni(D=('m'
))),AND( uni(gender=('m')), uni (major=('e')),   uni(city=('r')),uni(D=('p'))
),AND( uni(gender=('f')), uni (major=('e')),  uni(city=('r')),uni(D=('p'))),A
ND( uni(gender=('m')), uni (major=('e')),    uni(city=('r')),uni(D=('b'))),AN
D( uni(gender=('f')), uni (major=('e')),  uni(city=('r')),uni(D=('b'))),AND(
uni(gender=('m')), uni (major=('cs')),  uni(city=('r')),uni(D=('m'))),AND( un
i(gender=('f')), uni (major=('cs')), uni(city=('r')),uni(D=('m'))),AND( uni(g
ender=('m')), uni (major=('cs')),   uni(city=('r')),uni(D=('b'))),AND( uni(ge
nder=('f')), uni (major=('cs')),  uni(city=('r')),uni(D=('b'))))))
    def king_Saud_university(self):
        print("king Saud university")



#-
    @Rule(OR(AND( uni(gender=('m')), uni (major=('ai')),    uni(city=('r')),uni
(D=('m'))),AND( uni(gender=('f')), uni (major=('ai')), uni(city=('r')),uni(D=
('m'))),AND( uni(gender=('m')), uni (major=('d')),   uni(city=('r')),uni(D=('
m'))),AND( uni(gender=('f')), uni (major=('d')),   uni(city=('r')),uni(D=('m'
))),AND( uni(gender=('m')), uni (major=('s')),   uni(city=('r')),uni(D=('m'))
),AND( uni(gender=('f')), uni (major=('s')),   uni(city=('r')),uni(D=('m'))),
AND( uni(gender=('m')), uni (major=('e')),    uni(city=('r')),uni(D=('b'))),A
ND( uni(gender=('f')), uni (major=('e')),  uni(city=('r')),uni(D=('b'))),AND(
 uni(gender=('m')), uni (major=('cs')),    uni(city=('r')),uni(D=('b'))),AND(
uni(gender=('f')), uni (major=('cs')),  uni(city=('r')),uni(D=('b'))))))
    def prince_Sattam(self):
        print("prince Sattam bin Abdulaziz university ")



    @Rule(OR(AND(uni(gender='m'), uni(major='p'), uni(city='r'), uni(D='d')),AN
D(uni(gender='f'), uni(major='cs'), uni(city='r'), uni(D='b')),AND(uni(gender
='m'), uni(major='cs'), uni(city='r'), uni(D='b')))
    def The_Majmaah_UnivUniversity(self):
        print(" Majmaah University ")
```

```python
    @Rule(OR(AND(uni(gender='f'), uni(major='cs'), uni(city='r'), uni(D='b')),A
ND(uni(gender='m'), uni(major='cs'), uni(city='r'), uni(D='b')),AND(uni(gende
r='f'), uni(major='se'), uni(city='r'), uni(D='b')),AND(uni(gender='m'), uni(
major='se'), uni(city='r'), uni(D='b'))))
    def Shaqra_UniUniversity(self):
        print(" Shaqra University ")


    @Rule(OR(AND(uni(gender='f'), uni(major='p'), uni(city='r'), uni(D='d')),AN
D(uni(gender='f'), uni(major='cs'), uni(city='r'), uni(D='b')),AND(uni(gender
='f'), uni(major='ds'), uni(city='r'), uni(D='b')),AND(uni(gender='f'), uni(m
ajor='s'), uni(city='r'), uni(D='b')),AND(uni(gender='f'), uni(major='ai'), u
ni(city='r'), uni(D='b')),AND(uni(gender='f'), uni(major='ds'), uni(city='r')
, uni(D='m'))))
    def Princess_Nourah_UniUniversity (self):
        print(" Princess Nourah Bint Abdulrahman University ")



#================Jeddah==============================
    @Rule(OR(AND( uni(D='b'), uni(city='jd'), uni(gender='m'), uni(major='cs'))
,AND( uni(D='b'), uni(city='jd'), uni(gender='f'), uni(major='cs')),AND( uni(
D='m'), uni(city='jd'), uni(gender='f'), uni(major='cs')),AND(uni(degree='m')
, uni(city='jd'), uni(gender='m'), uni(major='cs')),AND(uni(degree='p'), uni(
city='jd'), uni(gender='f'), uni(major='cs')),AND(uni(degree='p'), uni(city='
jd'), uni(gender='m'), uni(major='cs'))))
    def KAU(self):
        print("King Abdulaziz UnivUniversity ")



    @Rule(OR(AND(uni(gender='f'), uni(major='cs'), uni(city='jd'), uni(D='b'))
,AND(uni(gender='f'), uni(major='s'), uni(city='jd'), uni(D='b')) ,AND(uni(ge
nder='f'), uni(major='se'), uni(city='jd'), uni(D='b'))   ,AND(uni(gender='f'
), uni(major='n'), uni(city='jd'), uni(D='b'))  ,AND(uni(gender='f'), uni(maj
or='cs'), uni(city='jd'), uni(D='m'))  ,AND(uni(gender='m'), uni(major='cs'),
 uni(city='jd'), uni(D='m'))  ,AND(uni(gender='f'), uni(major='s'), uni(city=
'jd'), uni(D='m'))  ,AND(uni(gender='m'), uni(major='s'), uni(city='jd'), uni
(D='m'))  ,AND(uni(gender='f'), uni(major='ds'), uni(city='jd'), uni(D='m'))
 ,AND(uni(gender='m'), uni(major='ds'), uni(city='jd'), uni(D='m'))))
    def Jeddah_UnivUniversity(self):
        print("Then University Of Jeddah ")

#================Makkah==============================

    @Rule(OR(AND(uni(gender='f'), uni(major='cs'), uni(city='mk'), uni(D='b')),
AND(uni(gender='m'), uni(major='cs'), uni(city='mk'), uni(D='b')),AND(uni(gen
der='f'), uni(major='ai'), uni(city='mk'), uni(D='m')),AND(uni(gender='m'), u
ni(major='ai'), uni(city='mk'), uni(D='m')),AND(uni(gender='f'), uni(major='c
s'), uni(city='mk'), uni(D='m')),AND(uni(gender='m'), uni(major='cs'), uni(ci
ty='mk'), uni(D='m'))))
```

```python
    def Umm_AlQura_UniUniversity(self):
        print("Then Umm Al-Qura University")
#================Taif============================
    @Rule(OR(AND(uni(gender=('m')), uni(major=('cs')), uni(city=('tf')),uni(D=(
'b'))), AND( uni(gender=('f')), uni (major=('cs')), uni(city=('tf')),uni(D=('
b')))))
    def Taif_University(self):
        print("Taif University ")


#================Medina============================
    @Rule(OR(AND(uni(gender=('m')), uni(major=('cs')), uni(city=('md')),uni(D=(
'b'))), AND( uni(gender=('f')), uni (major=('cs')), uni(city=('md')),uni(D=('
b'))),AND( uni(gender=('f')), uni (major=('cs')), uni(city=('md')),uni(D=('m'
))),AND( uni(gender=('m')), uni (major=('cs')), uni(city=('md')),uni(D=('m'))
)))
    def Taibah_University(self):
        print("Taibah University ")


    @Rule(OR(AND(uni(gender=('m')), uni(major=('cs')), uni(city=('md')),uni(D=(
'b'))), AND( uni(gender=('f')), uni (major=('cs')), uni(city=('md')),uni(D=('
b'))),AND( uni(gender=('f')), uni (major=('d')), uni(city=('md')),uni(D=('m')
)),AND( uni(gender=('f')), uni (major=('d')), uni(city=('md')),uni(D=('m'))))
)
    def IslamicUniversityofMadinah(self):
        print("Islamic University of Madinah")



print("****************** Wellcome to  تخصصيexpert System that will help you
to chose a university ******************")
n=int(input("\n\n> To start Enter 1 \n  exit Enter 0\n"))
while n > 0:
  engine=myUniversity()
  engine.reset()
  engine.declare(uni(D=input("\n> What dgree do you want ?  \n\n d for Diplom
a | b for Bachelor | m for master | p for Phd \n  "),city=input("\n> Where ar
e you from ? \n \n r for Riaydh | mk for makkah | jd for Jeddah | md for Medi
na | tf for taif \n  e for Eastern region | t for Tabuk | ar for Arara | h fo
r Hail | j for Al-Jwaf \n | n for Najran | ba for Al-
Baha  | jz for Jazan | ab for Abha | Q for Qassim  \n "),gender=input("\n>Ent
er Your gender \n\n f for Female |m for male\n  "),major=input("\n>what major
 do you want  \n\n  n for Networking | p for programing | cs for computer sci
ence \n | d for Data Science  | ai for artificial intelligence | s for Cyber
security | se for Software engineering \n  ")))
  print("The university recommended for you is")
  engine.run()
  n=int(input("> To start Enter 1 \n  exit Enter 0\n"))
print("Thank you <3")
```
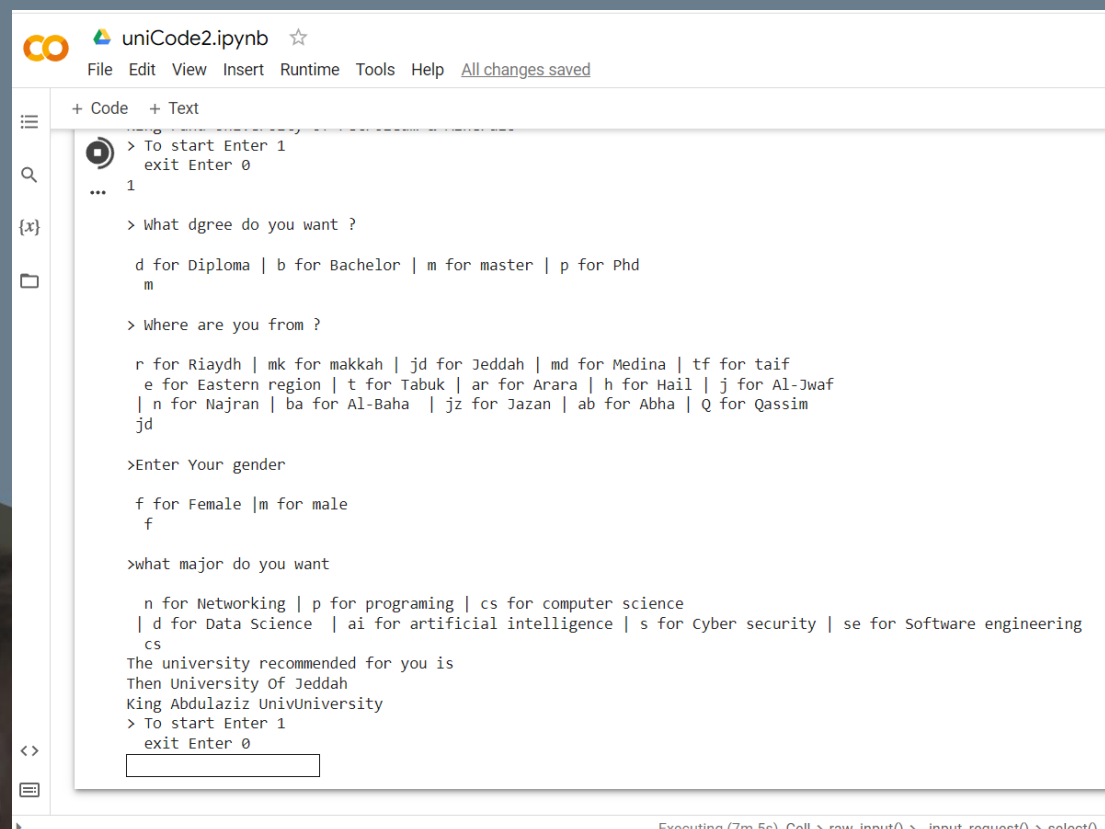
Screenshots

+ Code   + Text

```
****************** Wellcome to تخصصي expert System that will help you to chose a university ******************

> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  m

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
 e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
 | n for Najran | ba for Al-Baha | jz for Jazan | ab for Abha | Q for Qassim
 t

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

 n for Networking | p for programing | cs for computer science
 | d for Data Science | ai for artificial intelligence | s for Cyber security | se for Software engineering
  s
The university recommended for you is
Tabuk University
> To start Enter 1
  exit Enter 0
```

Executing (57s) Cell > raw_input() > _input_request() > select()

+ Code   + Text

```
> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  m

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
 e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
 | n for Najran | ba for Al-Baha | jz for Jazan | ab for Abha | Q for Qassim
 jd

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

 n for Networking | p for programing | cs for computer science
 | d for Data Science | ai for artificial intelligence | s for Cyber security | se for Software engineering
  cs
The university recommended for you is
Then University Of Jeddah
King Abdulaziz UnivUniversity
> To start Enter 1
  exit Enter 0
```

Executing (7m 5s) Cell > raw_input() > _input_request() > select()

```
> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  m

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
  e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
 | n for Najran | ba for Al-Baha | jz for Jazan | ab for Abha | Q for Qassim
  r

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

 n for Networking | p for programing | cs for computer science
 | d for Data Science | ai for artificial intelligence | s for Cyber security | se for Software engineering
  d
The university recommended for you is
prince Sattam bin Abdulaziz university
> To start Enter 1
  exit Enter 0
```



```
> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  m

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
  e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
 | n for Najran | ba for Al-Baha | jz for Jazan | ab for Abha | Q for Qassim
  r

>Enter Your gender

 f for Female |m for male
  m

>what major do you want

 n for Networking | p for programing | cs for computer science
 | d for Data Science | ai for artificial intelligence | s for Cyber security | se for Software engineering
  ai
The university recommended for you is
prince Sattam bin Abdulaziz university
> To start Enter 1
  exit Enter 0
```

+ Code + Text

```
> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  m

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
  e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
 | n for Najran | ba for Al-Baha  | jz for Jazan | ab for Abha | Q for Qassim
  q

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

  n for Networking | p for programing | cs for computer science
 | d for Data Science  | ai for artificial intelligence | s for Cyber security | se for Software engineering
  n
The university recommended for you is
Qassim university
> To start Enter 1
  exit Enter 0
```

Executing (2m 23s) Cell > raw_input() > _input_request() > select()

+ Code + Text

```
  s
The university recommended for you is
Tabuk University
> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  b

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
  e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
 | n for Najran | ba for Al-Baha  | jz for Jazan | ab for Abha | Q for Qassim
  ar

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

  n for Networking | p for programing | cs for computer science
 | d for Data Science  | ai for artificial intelligence | s for Cyber security | se for Software engineering
  cs
The university recommended for you is
Northern Boroders University
> To start Enter 1
  exit Enter 0
```

Executing (3m 58s) Cell > raw_input() > _input_request() > select()

+ Code + Text

```
> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  p

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
  e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
  | n for Najran | ba for Al-Baha | jz for Jazan | ab for Abha | Q for Qassim
  e

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

  n for Networking | p for programing | cs for computer science
  | d for Data Science | ai for artificial intelligence | s for Cyber security | se for Software engineering
  n
The university recommended for you is
King Fahd University of Petroleum & Minerals
> To start Enter 1
  exit Enter 0
  [                    ]
```

+ Code + Text

```
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  b

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
  e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
  | n for Najran | ba for Al-Baha | jz for Jazan | ab for Abha | Q for Qassim
  e

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

  n for Networking | p for programing | cs for computer science
  | d for Data Science | ai for artificial intelligence | s for Cyber security | se for Software engineering
  cs
The university recommended for you is
University of Hafr Al Batin
imam Abdulrahman bin Faisal university
prince Mohammad bin Fahd university
King Faisal University
King Fahd University of Petroleum & Minerals
> To start Enter 1
  exit Enter 0
  [                    ]
```

Executing (4m 58s) Cell > raw_input() > _input_request() > select()

+ Code + Text

```
****************** Wellcome to تخصصي expert System that will help you to chose a university ******************

> To start Enter 1
  exit Enter 0
1

> What dgree do you want ?

 d for Diploma | b for Bachelor | m for master | p for Phd
  m

> Where are you from ?

 r for Riaydh | mk for makkah | jd for Jeddah | md for Medina | tf for taif
 e for Eastern region | t for Tabuk | ar for Arara | h for Hail | j for Al-Jwaf
 | n for Najran | ba for Al-Baha | jz for Jazan | ab for Abha | Q for Qassim
 h

>Enter Your gender

 f for Female |m for male
  f

>what major do you want

 n for Networking | p for programing | cs for computer science
 | d for Data Science | ai for artificial intelligence | s for Cyber security | se for Software engineering
  ai
The university recommended for you is
University of Hail
> To start Enter 1
  exit Enter 0
```

Executing (46s) Cell > raw_input() > _input_request() > select()