```
from durable.lang import
with ruleset('interests'):
  @when all(m.year == 1)
  def first(c):
       print("You need some more experience, Please do
some more courses later on ")
  @when all (m.year == 2)
  def first(c):
       print("You need some more experience, Please do
some more courses later on ")
  @when all((m.interest.anyItem(item == 'Machine
Learning')) & (m.interest.anyItem(item == 'Deep')
Learning')) & (m.interest.anyItem(item != 'NLP')) &
(m.interest.anyItem(item == 'Artificial Intelligence')) &
(m.grades >= 7) & (m.year >= 3))
       print("Recomended Data Scientist")
       c.assert fact('recommend', {'type': 'AI',
'grades': c.m.grades})
       c.assert fact('suggest', {'type': 'AI', 'grades':
c.m.grades})
```

```
@when all((m.interest.anyItem(item == 'Machine)
Learning')) & (m.interest.anyItem(item == 'Deep')
Learning')) & (m.interest.anyItem(item == 'Artificial
Intelligence')) & (m.interest.anyItem(item == 'NLP')) &
(m.grades >= 7) & (m.year >= 3))
       print("Strongly Recommended Data Scientist")
       c.assert fact('recommend', {'type': 'AI',
'grades': c.m.grades})
       c.assert fact('suggest', {'type': 'AI', 'grades':
c.m.grades})
   @when all((m.interest.anyItem(item == 'Machine)
Learning')) & (m.interest.anyItem(item == 'Deep
Learning')) & (m.interest.anyItem(item == 'Artificial
Intelligence')) & (m.interest.anyItem(item == 'NLP')) &
(m.grades >= 7) & (m.year >= 3))
  def data ml1(c):
       print("Strongly Recommended Machine Learning
Engineer")
       c.assert fact('recommend', {'type': 'AI',
'grades': c.m.grades})
       c.assert fact('suggest', {'type': 'AI', 'grades':
c.m.grades})
```

```
@when all((m.interest.anyItem(item == 'FCS' and
item=='CN')) & (m.interest.anyItem(item == 'Deep
Learning')) and not(m.interest.anyItem(item == 'OS')) &
(m.year >= 3))
  def ns(c):
       print("Recommended Network Security Engineer")
      c.assert fact('recommend', {'type': 'Security',
'grades': c.m.grades})
       c.assert fact('suggest', {'type': 'AI', 'grades':
c.m.grades})
  @when all((m.interest.anyItem(item == 'FCS')) &
(m.interest.anyItem(item == 'CN')) &
(m.interest.anyItem(item == 'OS')) & (m.year >= 3))
  def ns(c):
       print("Strongly Recommended Network Security
Engineer")
      c.assert fact('recommend', {'type': 'Security',
'grades': c.m.grades})
       c.assert fact('suggest', {'type': 'AI', 'grades':
c.m.grades})
  @when all((m.interest.anyItem(item == 'DBMS')) &
(m.year >= 3))
      print("Strongly Recommended DevOPS")
```

```
c.assert fact('recommend', {'type': 'Database',
'grades': c.m.grades})
       c.assert fact('suggest', {'type': 'AI', 'grades':
c.m.grades})
  @when all(+m.interest)
  def no recommendation(c):
       print("Recommended: Web Development")
with ruleset('recommend'):
  @when all((m.type == 'AI') & (m.grades > 6))
  def ec(e):
      print("Recommend Buisness Intelligence Developer")
  @when all((m.type == 'Database') & (m.grades > 6))
  def ec1(e):
       print("Recommend Database Administrator")
  @when all((m.type == 'Security') & (m.grades > 6))
  def ec2(e):
       print("Recommend Analyst Cybersecurity
Consultant")
with ruleset('suggest'):
  @when all((m.type == 'AI') & (m.grades > 6))
  def ec(e):
       print("Recommend Big Data Engineer")
```

```
@when all((m.type == 'Database') & (m.grades > 6))
  def ec1(e):
      print("Recommend Certified Computer Examiner")
  @when all((m.type == 'Security') & (m.grades > 6))
  def ec2(e):
      print("Recommend Cybersecurity Architect
Networking Software Development ")
def courses():
  print("----- Welcome to the
Career Advisory System -----")
  name = input("Enter the NAME : ")
  roll = int(input("Enter the Roll No : "))
  branch = input("Enter the Branch : ")
  gpa=float(input("Enter the GPA: "))
  year = int(
      input("Enter the Year\n 1. First Year\n 2. Second
year\n 3. Third Year\n 4. Fourth Year\n"))
```

```
print("Hello "+name+" "+str(roll)+" "+branch+" "
         "and Welcome to the Career Advisory System ")
   if(year!=1 and year!=2):
       print("Enter Your 4 Courses you have done so far
Intelligence, NLP, OS, CN, FCS, DBMS]")
       done course = []
       for i in range (0, 4):
           c = input()
           done course.append(c)
       math = input("Are you interested in Maths ? Y/N ")
       database = input("Are you interested in Database ?
Y/N ")
       android = input("Are you interested in Android
Development ? Y/N ")
       cybersecurity = input("Are you interested in
Network Security ? Y/N ")
       print(done course)
       assert fact('interests', {'interest': done course,
'grades': gpa, 'year': year})
  else:
       assert fact('interests', {'interest': [],
'grades': gpa, 'year': year})
courses()
```