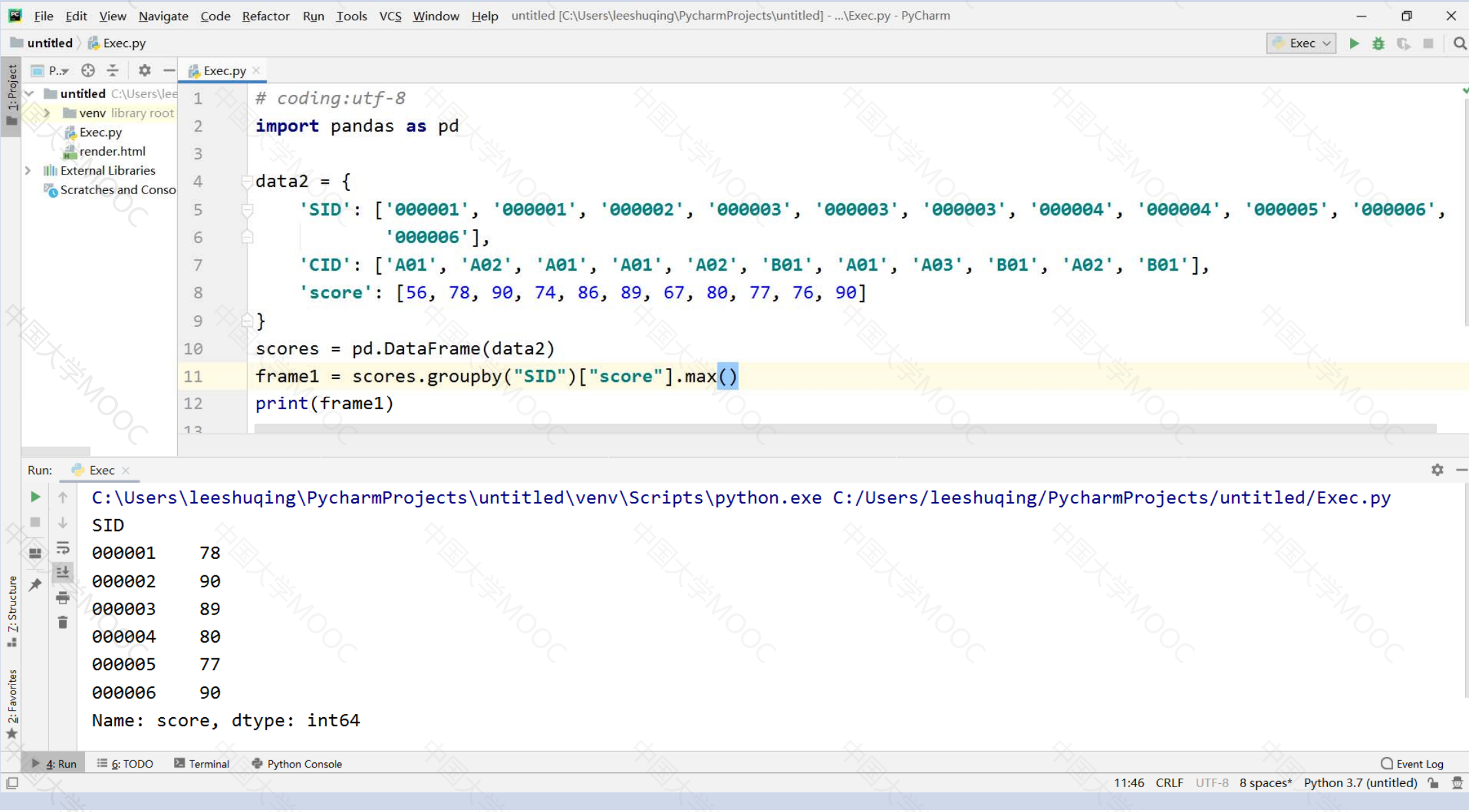
Python大数据分析

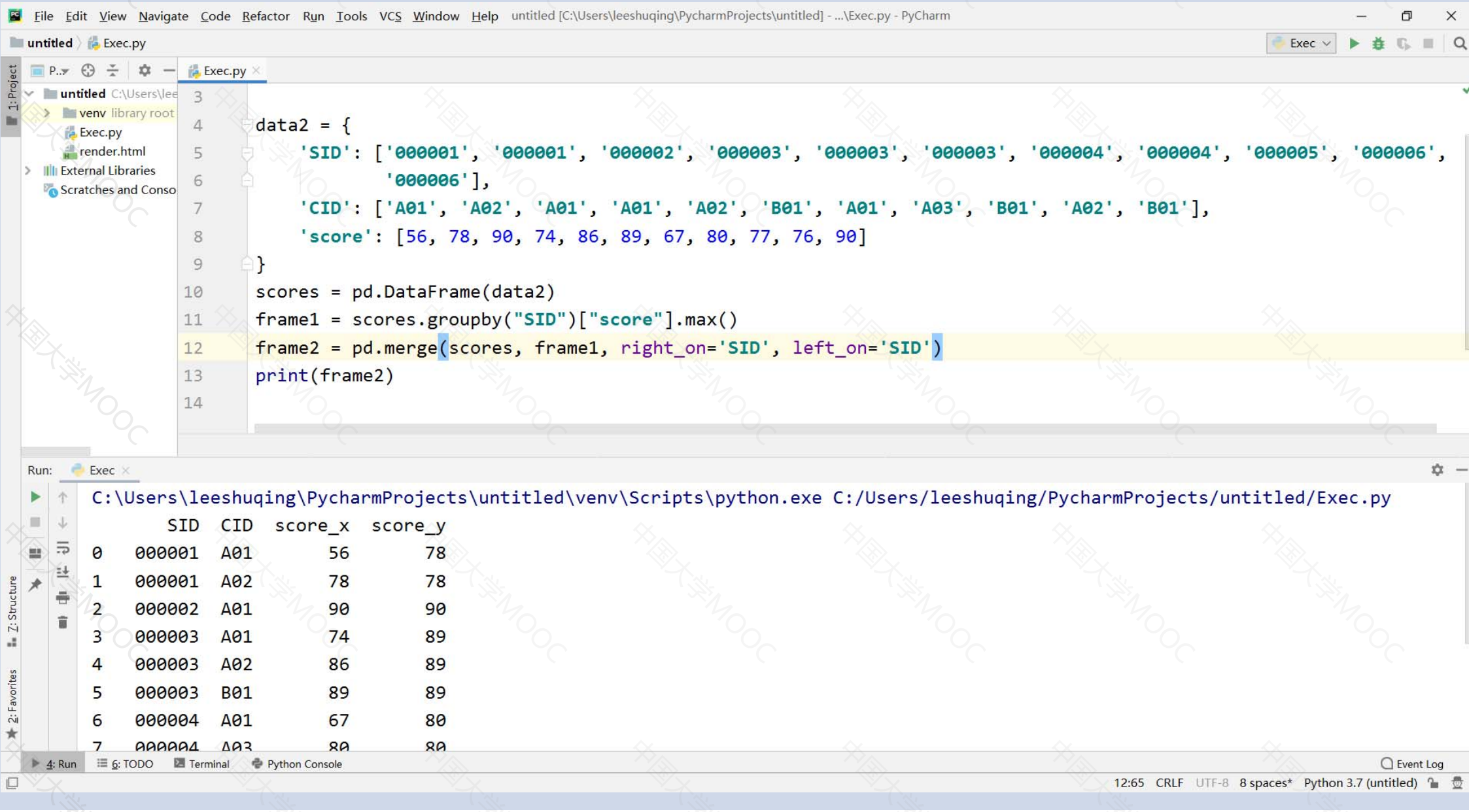
九、高级子查询

查询每个学生成绩最高的课程号

查询对应的课程号

查询学生的最高成绩


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
Exec
1: Project
untitled C:\Users\lee
venv library root
Exec.py
render.html
External Libraries
Scratches and Conso
Exec.py
1 # coding:utf-8
2 import pandas as pd
3
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 frame1 = scores.groupby("SID")["score"].max()
12 print(frame1)
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID
000001 78
000002 90
000003 89
000004 80
000005 77
000006 90
Name: score, dtype: int64
7: Structure
2: Favorites
4: Run
6: TODO
Terminal
Python Console
Event Log
11:46 CRLF UTF-8 8 spaces* Python 3.7 (untitled)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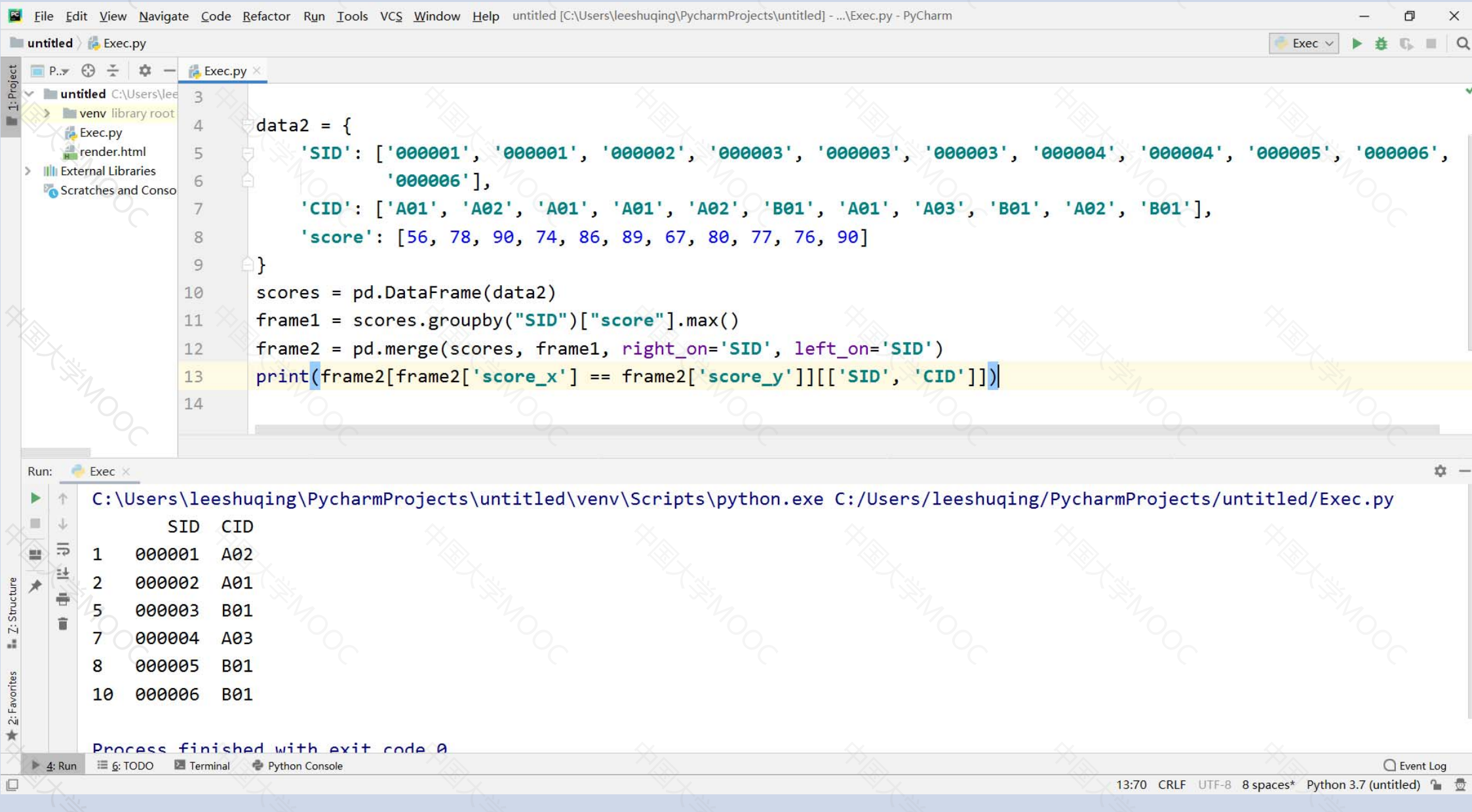
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 frame1 = scores.groupby("SID")["score"].max()
12 frame2 = pd.merge(scores, frame1, right_on='SID', left_on='SID')
13 print(frame2)
14
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID score_x score_y
0 000001 A01 56 78
1 000001 A02 78 78
2 000002 A01 90 90
3 000003 A01 74 89
4 000003 A02 86 89
5 000003 B01 89 89
6 000004 A01 67 80
7 000004 A03 80 80
4: Run 6: TODO Terminal Python Console Event Log
12:65 CRLF UTF-8 8 spaces* Python 3.7 (untitled)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untitled C:\Users\lee
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External Libraries
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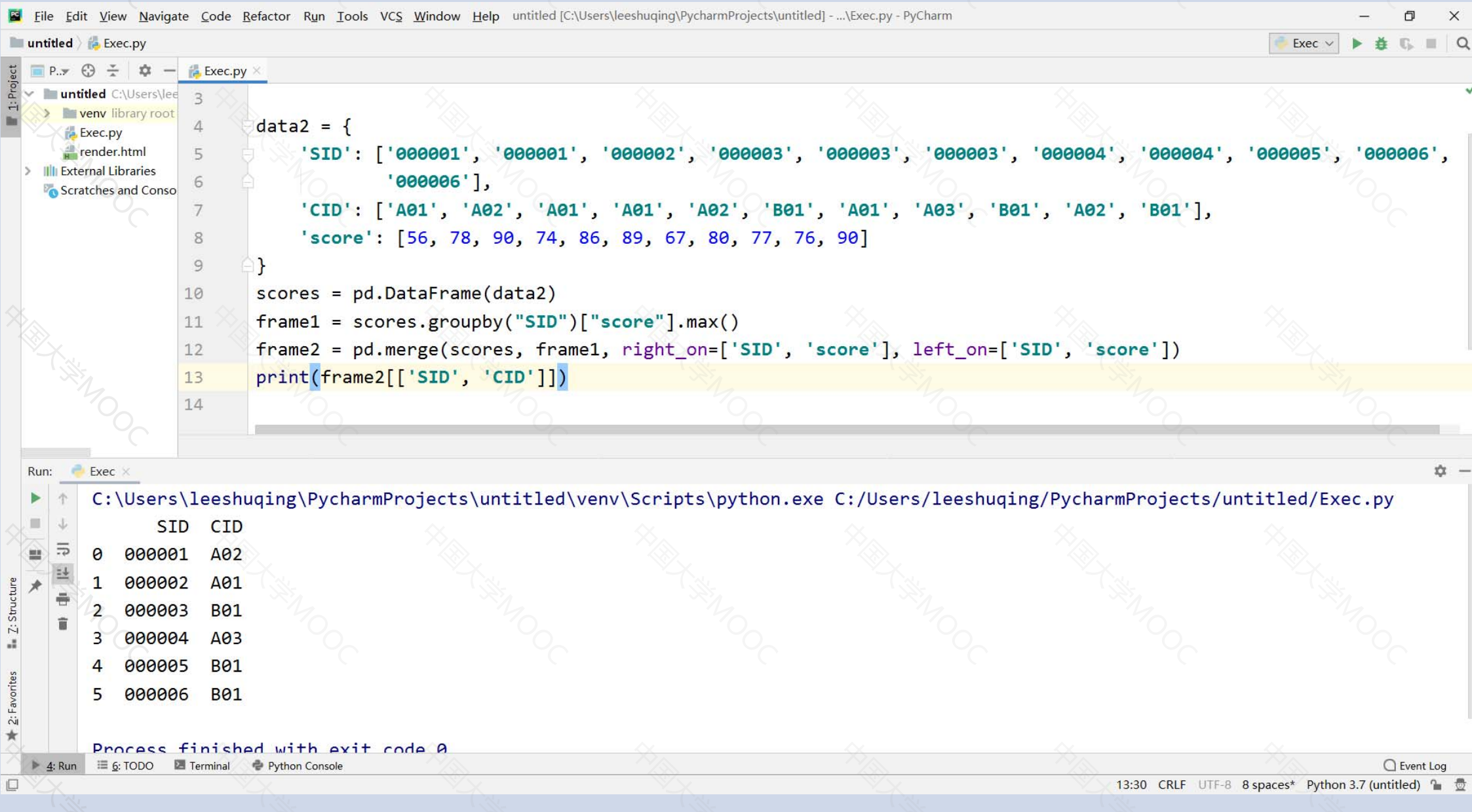
3
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 frame1 = scores.groupby("SID")["score"].max()
12 frame2 = pd.merge(scores, frame1, right_on='SID', left_on='SID')
13 print(frame2[frame2['score_x'] == frame2['score_y']][['SID', 'CID']])
14
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID
1 000001 A02
2 000002 A01
5 000003 B01
7 000004 A03
8 000005 B01
10 000006 B01
Process finished with exit code 0
4: Run 6: TODO Terminal Python Console Event Log
13:70 CRLF UTF-8 8 spaces* Python 3.7 (untitled)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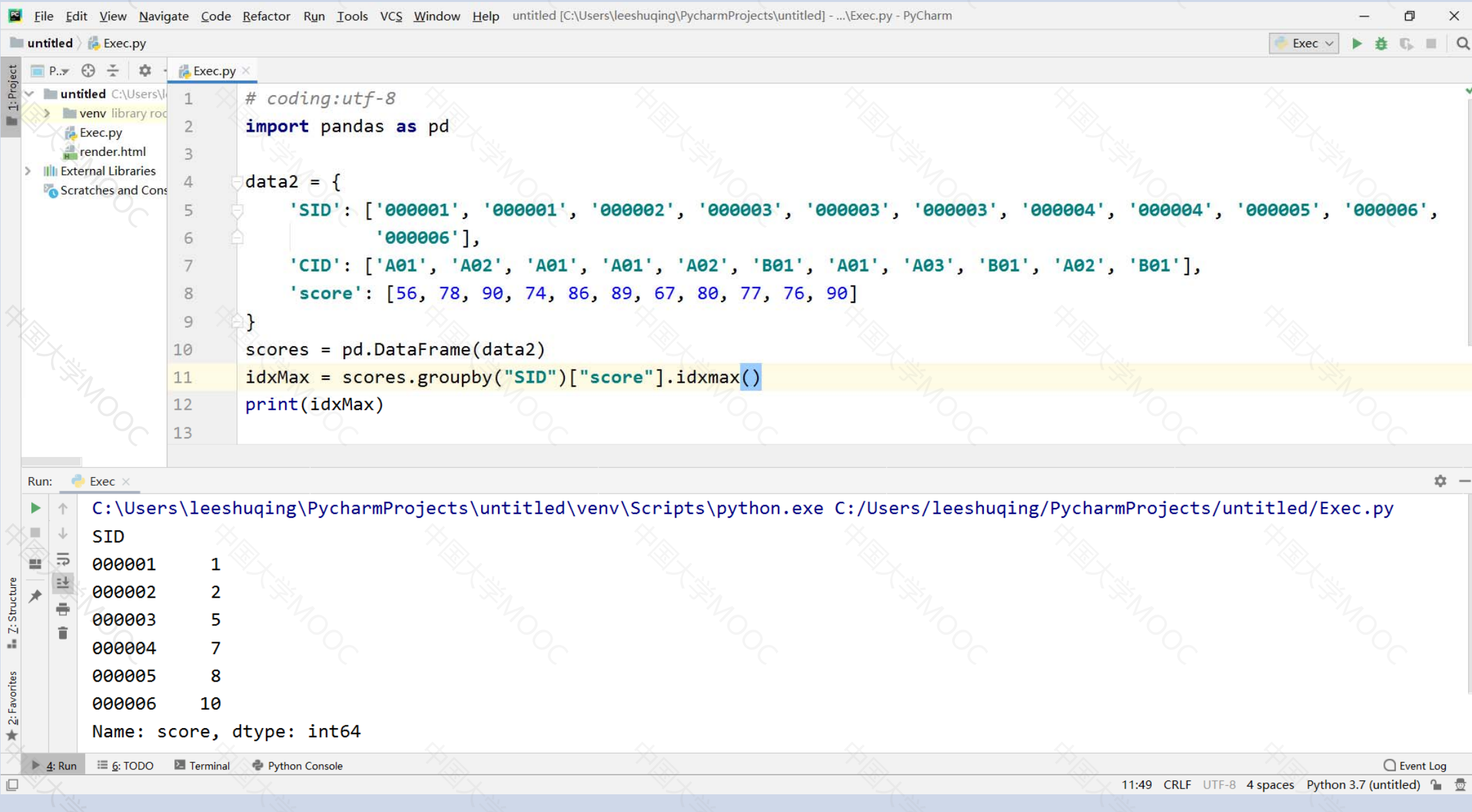
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 frame1 = scores.groupby("SID")["score"].max()
12 frame2 = pd.merge(scores, frame1, right_on=['SID', 'score'], left_on=['SID', 'score'])
13 print(frame2[['SID', 'CID']])
14
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID
0 000001 A02
1 000002 A01
2 000003 B01
3 000004 A03
4 000005 B01
5 000006 B01
Process finished with exit code 0
4: Run 6: TODO Terminal Python Console Event Log
13:30 CRLF UTF-8 8 spaces* Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
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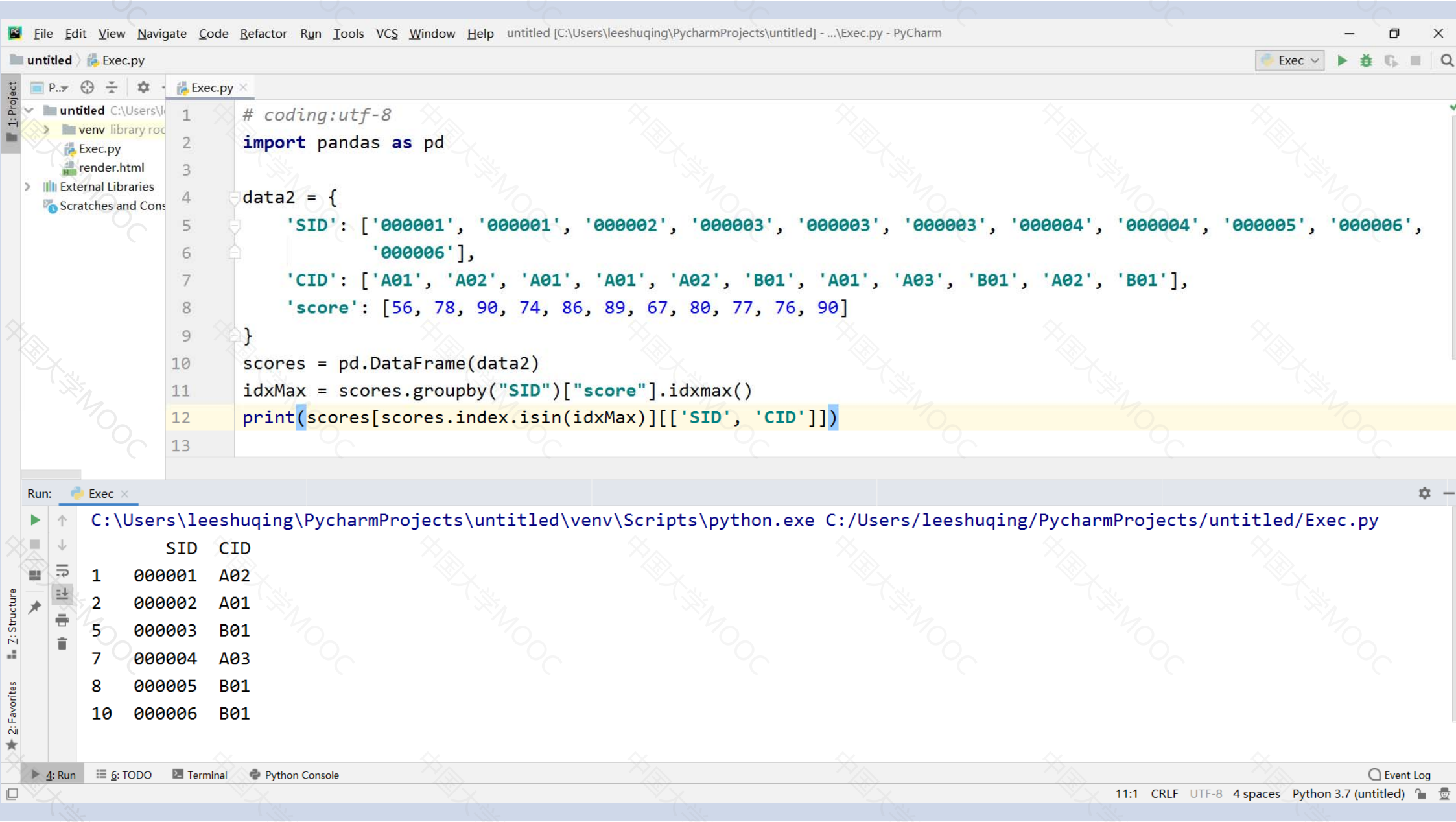
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
1 # coding:utf-8
2 import pandas as pd
3
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 idxMax = scores.groupby("SID")["score"].idxmax()
12 print(idxMax)
13
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID
000001 1
000002 2
000003 5
000004 7
000005 8
000006 10
Name: score, dtype: int64
4: Run 6: TODO Terminal Python Console Event Log
11:49 CRLF UTF-8 4 spaces Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
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venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
1 # coding:utf-8
2 import pandas as pd
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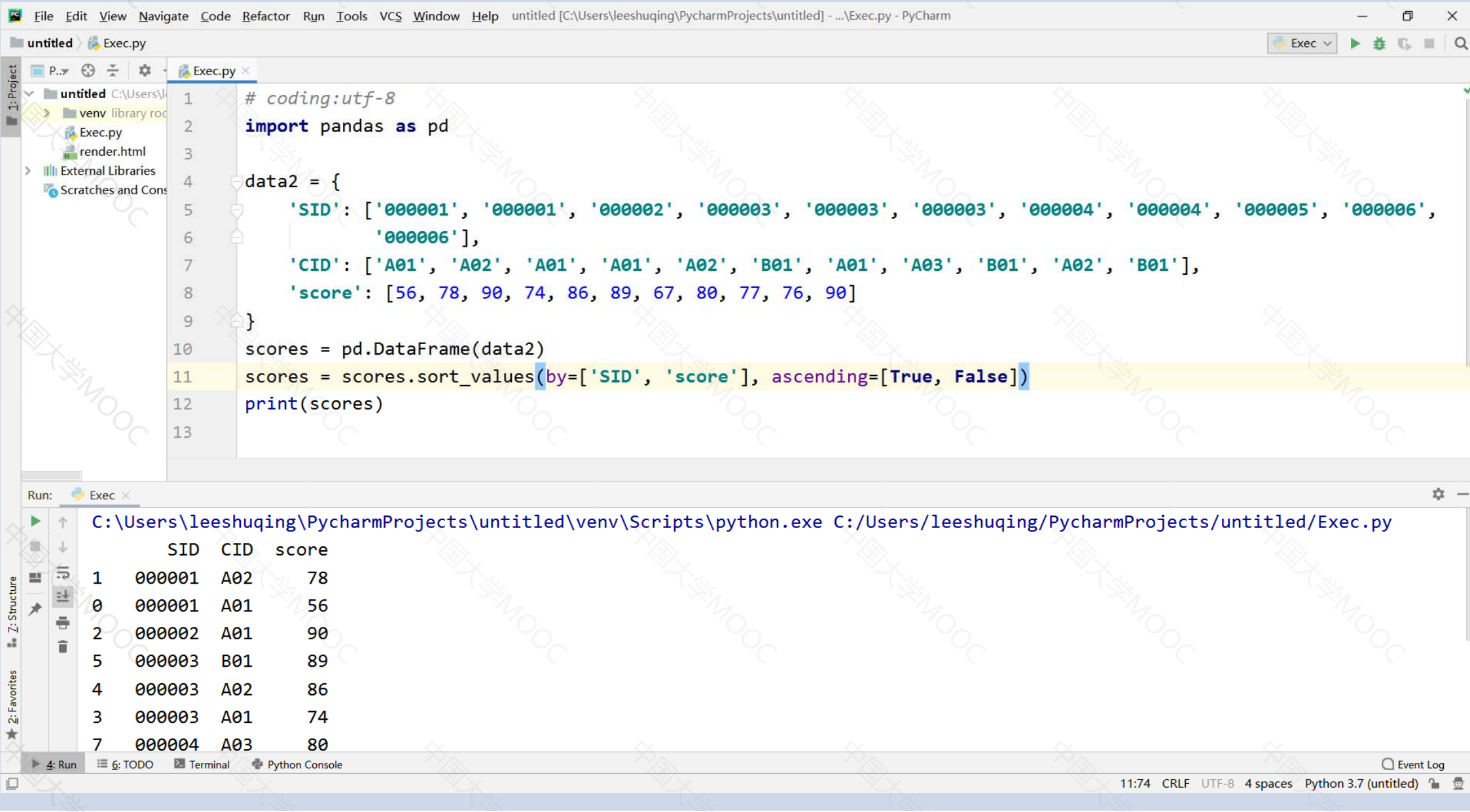
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 idxMax = scores.groupby("SID")["score"].idxmax()
12 print(scores[scores.index.isin(idxMax)][['SID', 'CID']])
13
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID
1 000001 A02
2 000002 A01
5 000003 B01
7 000004 A03
8 000005 B01
10 000006 B01
4: Run 6: TODO Terminal Python Console Event Log
11:1 CRLF UTF-8 4 spaces Python 3.7 (untitled)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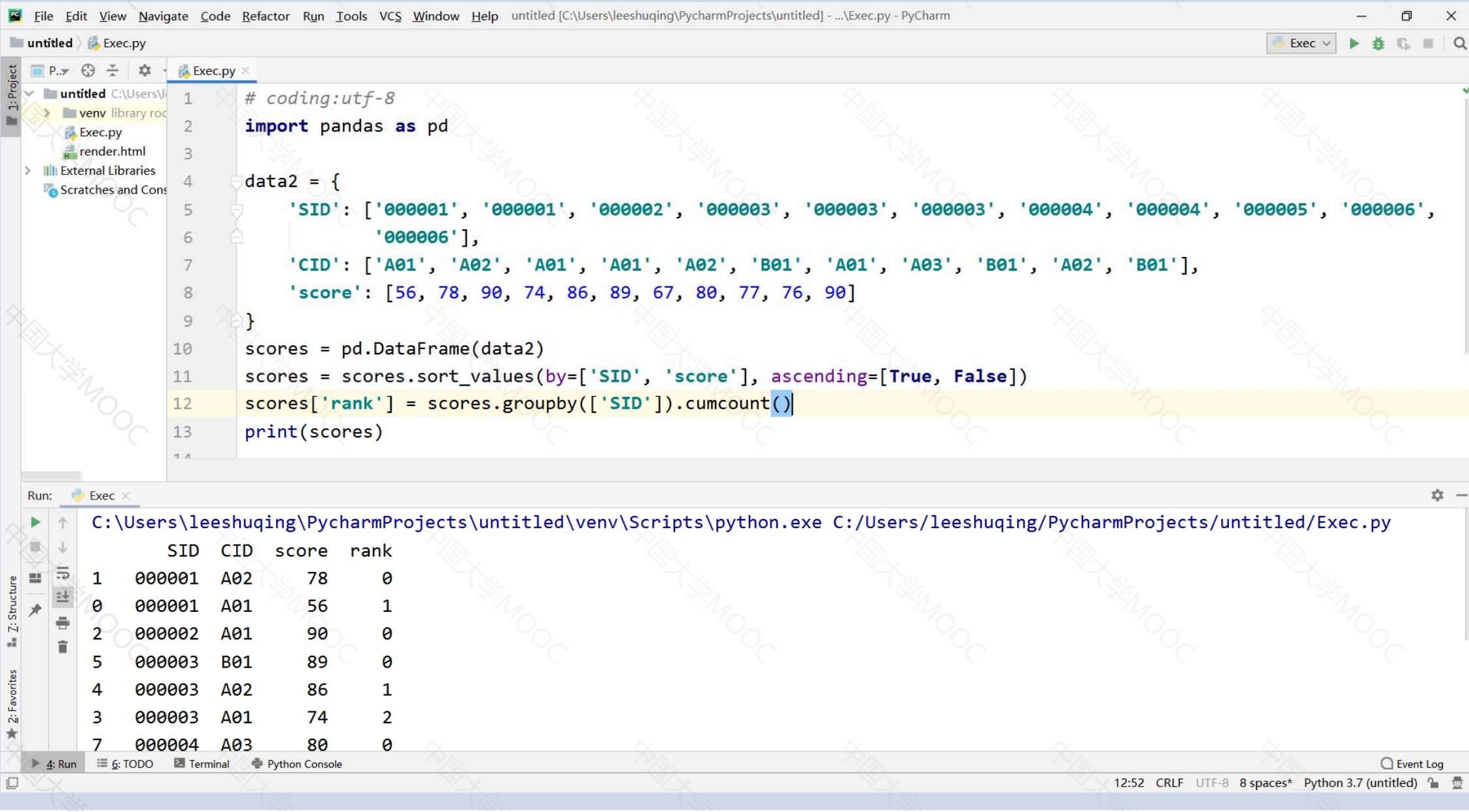
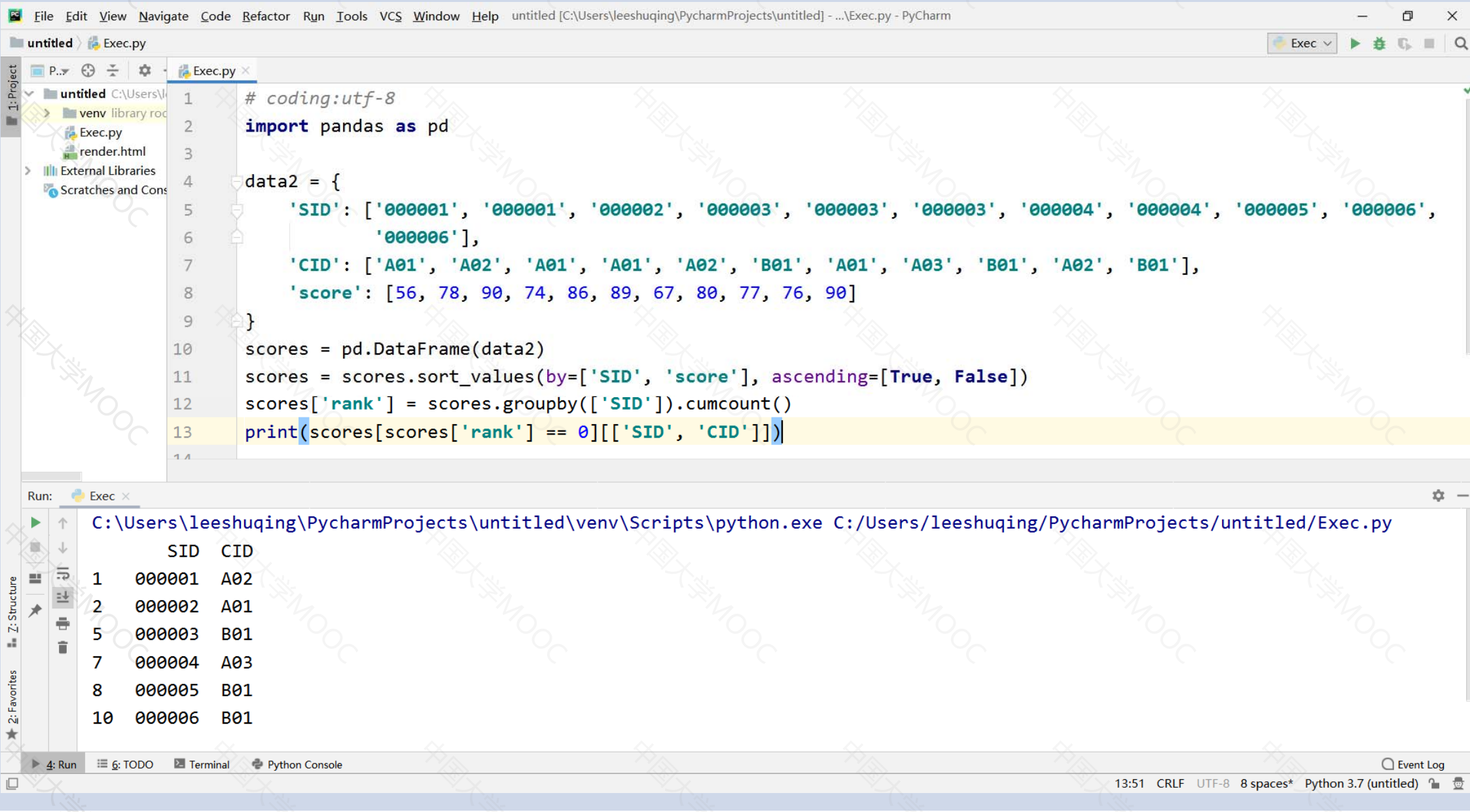
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
1 # coding:utf-8
2 import pandas as pd
3
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 scores = scores.sort_values(by=['SID', 'score'], ascending=[True, False])
12 print(scores)
13
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID score
1 000001 A02 78
0 000001 A01 56
2 000002 A01 90
5 000003 B01 89
4 000003 A02 86
3 000003 A01 74
7 000004 A03 80
4: Run 6: TODO Terminal Python Console Event Log
11:74 CRLF UTF-8 4 spaces Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
Exec
Exec.py
untitled C:\Users\
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
# coding:utf-8
import pandas as pd
data2 = {
'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
'000006'],
'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
}
scores = pd.DataFrame(data2)
scores = scores.sort_values(by=['SID', 'score'], ascending=[True, False])
scores['rank'] = scores.groupby(['SID']).cumcount()
print(scores)
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID score rank
1 000001 A02 78 0
0 000001 A01 56 1
2 000002 A01 90 0
5 000003 B01 89 0
4 000003 A02 86 1
3 000003 A01 74 2
7 000004 A03 80 0
4: Run
6: TODO
Terminal
Python Console
Event Log
12:52 CRLF UTF-8 8 spaces* Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
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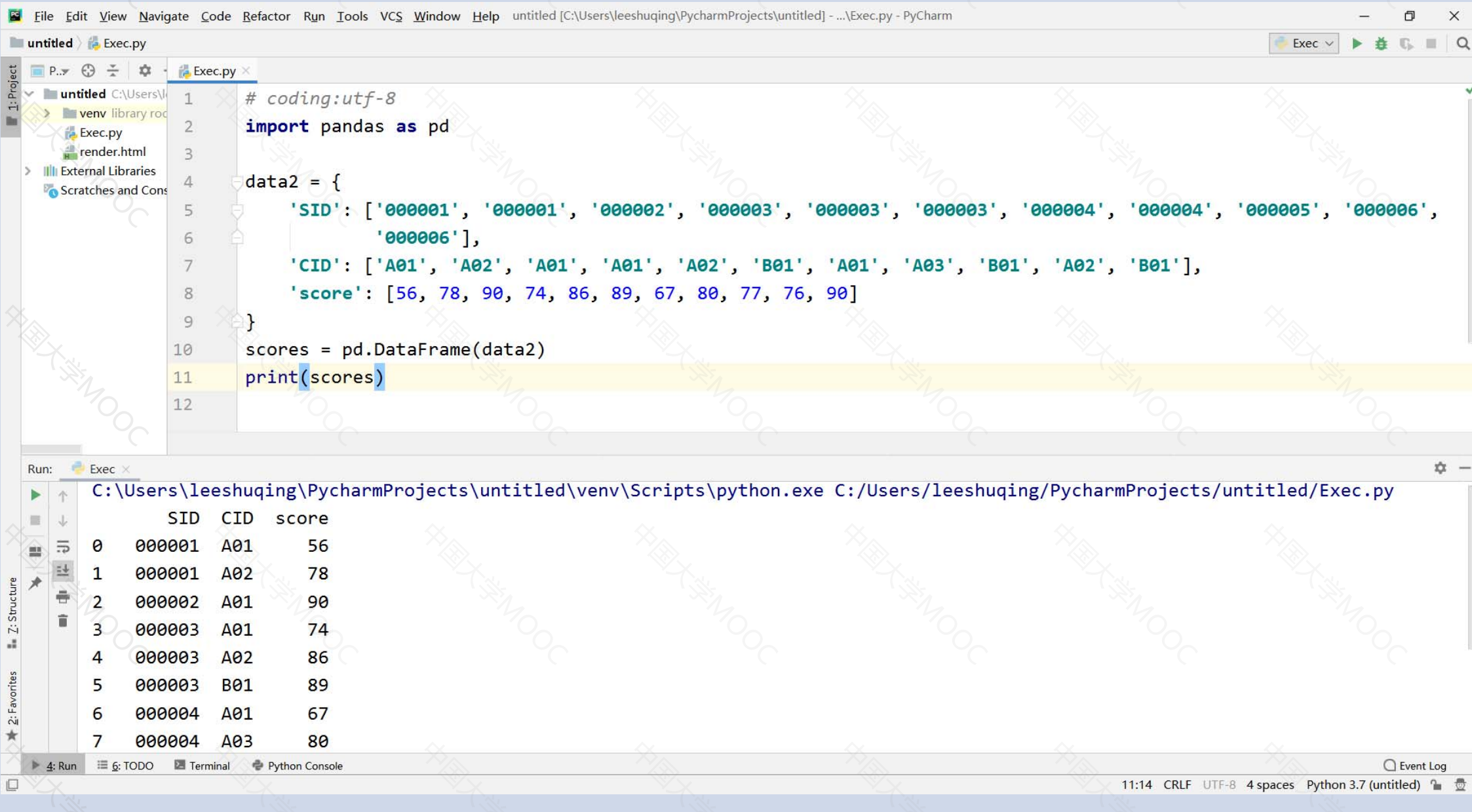
Exec.py
untitled C:\Users\
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
# coding:utf-8
import pandas as pd
data2 = {
'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
'000006'],
'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
}
scores = pd.DataFrame(data2)
scores = scores.sort_values(by=['SID', 'score'], ascending=[True, False])
scores['rank'] = scores.groupby(['SID']).cumcount()
print(scores[scores['rank'] == 0][['SID', 'CID']])
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID
1 000001 A02
2 000002 A01
5 000003 B01
7 000004 A03
8 000005 B01
10 000006 B01
4: Run 6: TODO Terminal Python Console Event Log
13:51 CRLF UTF-8 8 spaces* Python 3.7 (untitled)

查询选修了A01课程的学生A02课程成绩为多少？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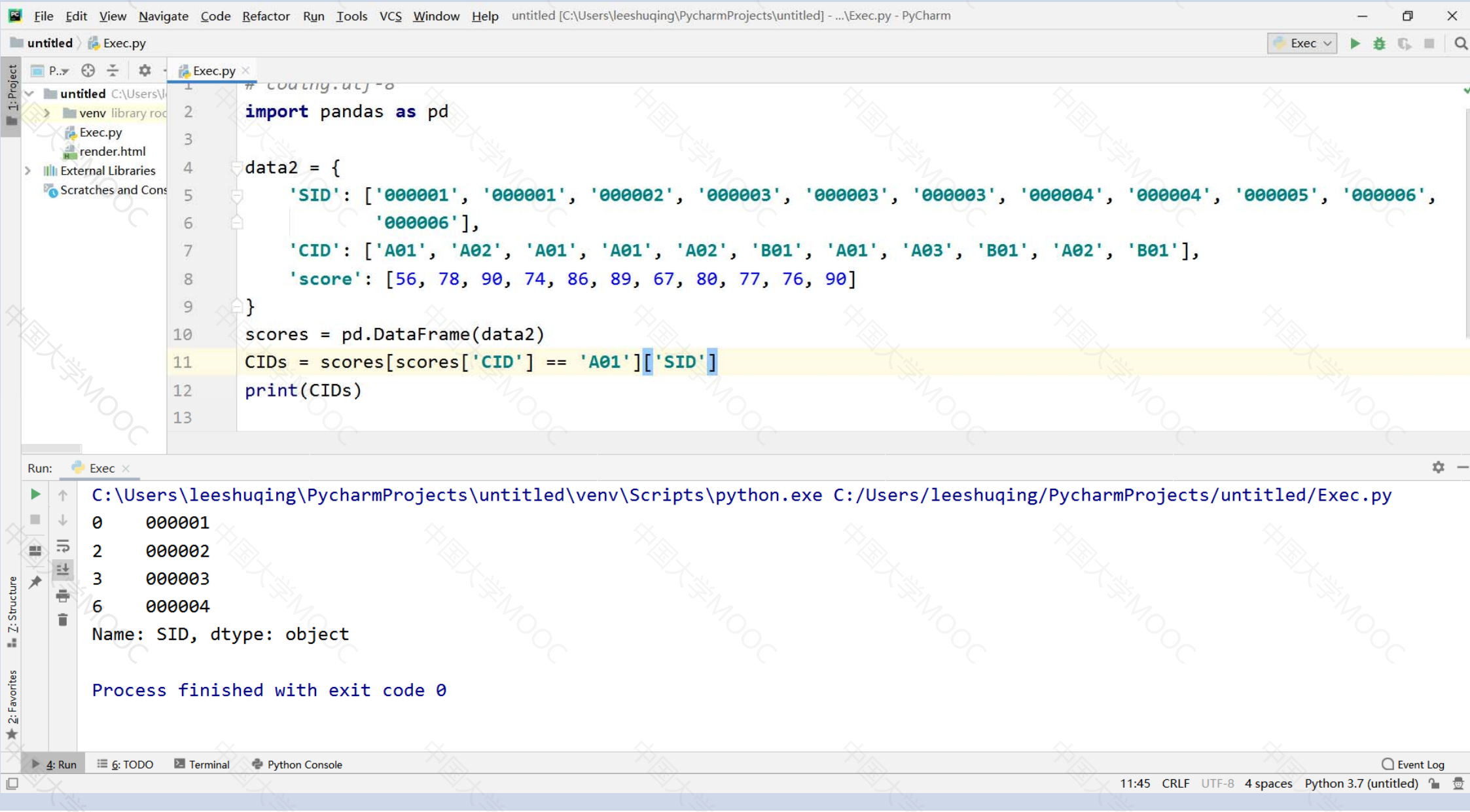
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 print(scores)
12
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID score
0 000001 A01 56
1 000001 A02 78
2 000002 A01 90
3 000003 A01 74
4 000003 A02 86
5 000003 B01 89
6 000004 A01 67
7 000004 A03 80
4: Run 6: TODO Terminal Python Console Event Log
11:14 CRLF UTF-8 4 spaces Python 3.7 (untitled)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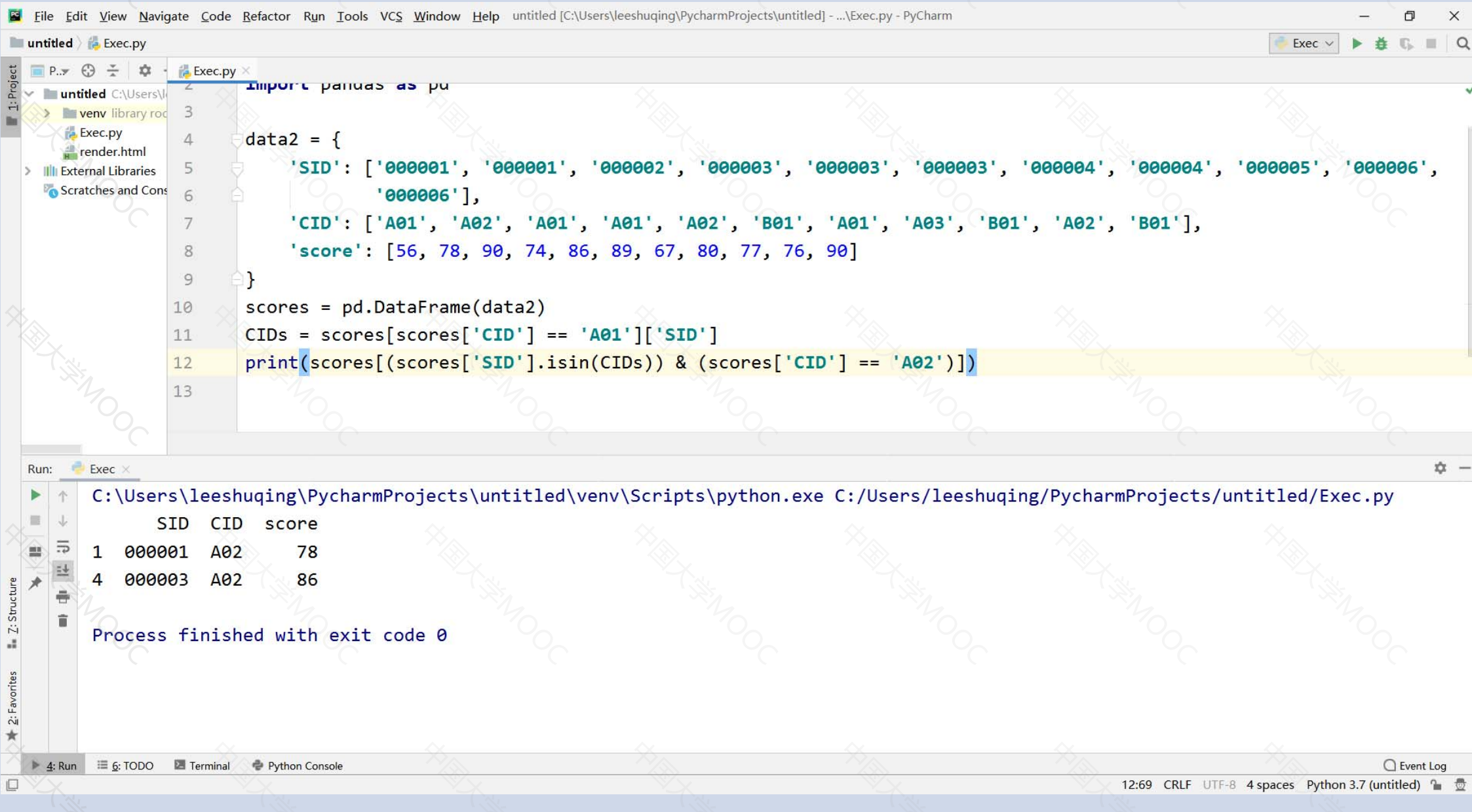
import pandas as pd
data2 = {
'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
'000006'],
'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
}
scores = pd.DataFrame(data2)
CIDs = scores[scores['CID'] == 'A01']['SID']
print(CIDs)
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
0 000001
2 000002
3 000003
6 000004
Name: SID, dtype: object
Process finished with exit code 0
4: Run
6: TODO
Terminal
Python Console
Event Log
11:45 CRLF UTF-8 4 spaces Python 3.7 (untitled)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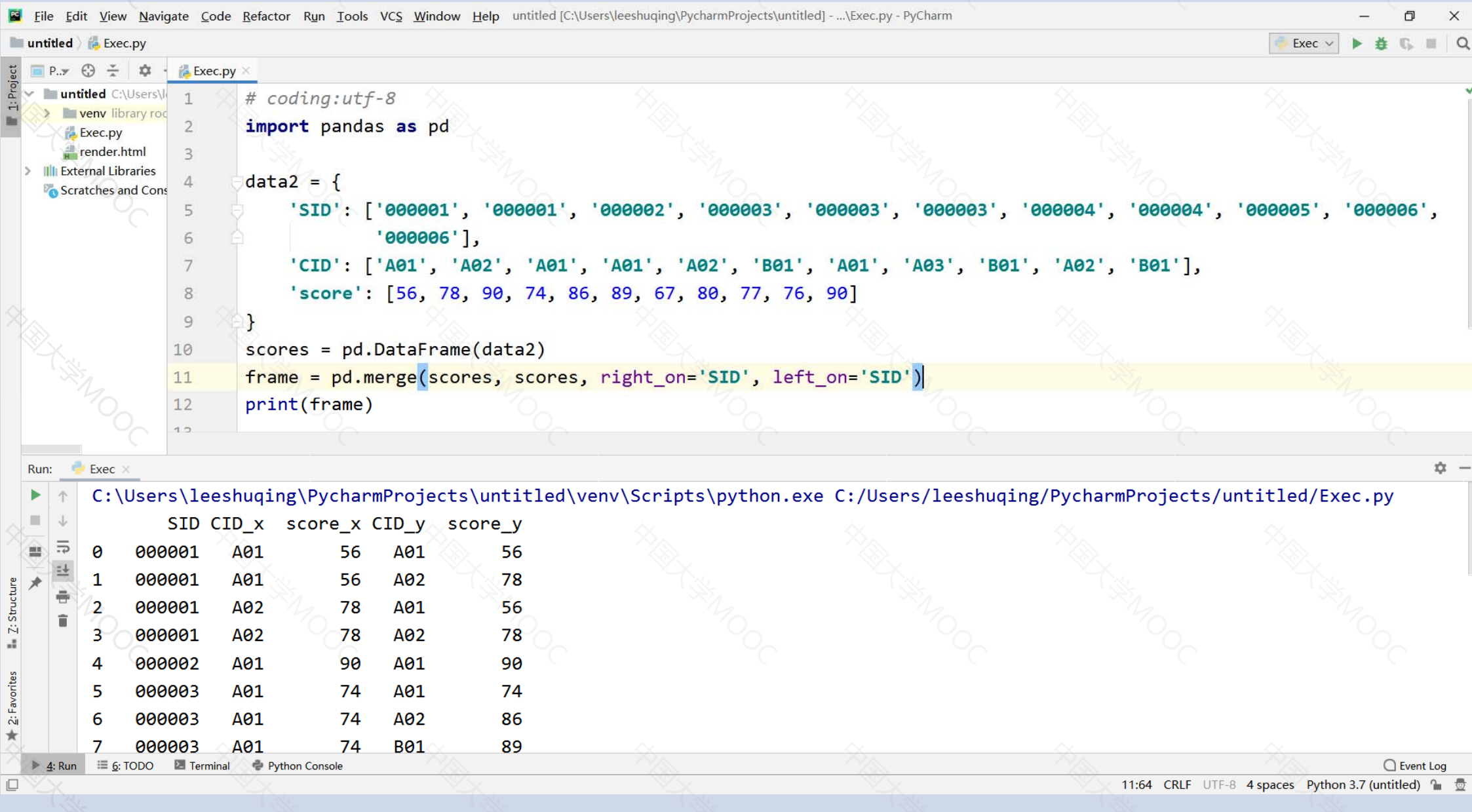
untitled C:\Users\
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
import pandas as pd
data2 = {
'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
'000006'],
'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
}
scores = pd.DataFrame(data2)
CIDs = scores[scores['CID'] == 'A01']['SID']
print(scores[(scores['SID'].isin(CIDs)) & (scores['CID'] == 'A02')])
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID score
1 000001 A02 78
4 000003 A02 86
Process finished with exit code 0
4: Run
6: TODO
Terminal
Python Console
Event Log
12:69 CRLF UTF-8 4 spaces Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
Exec
Exec.py
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render.html
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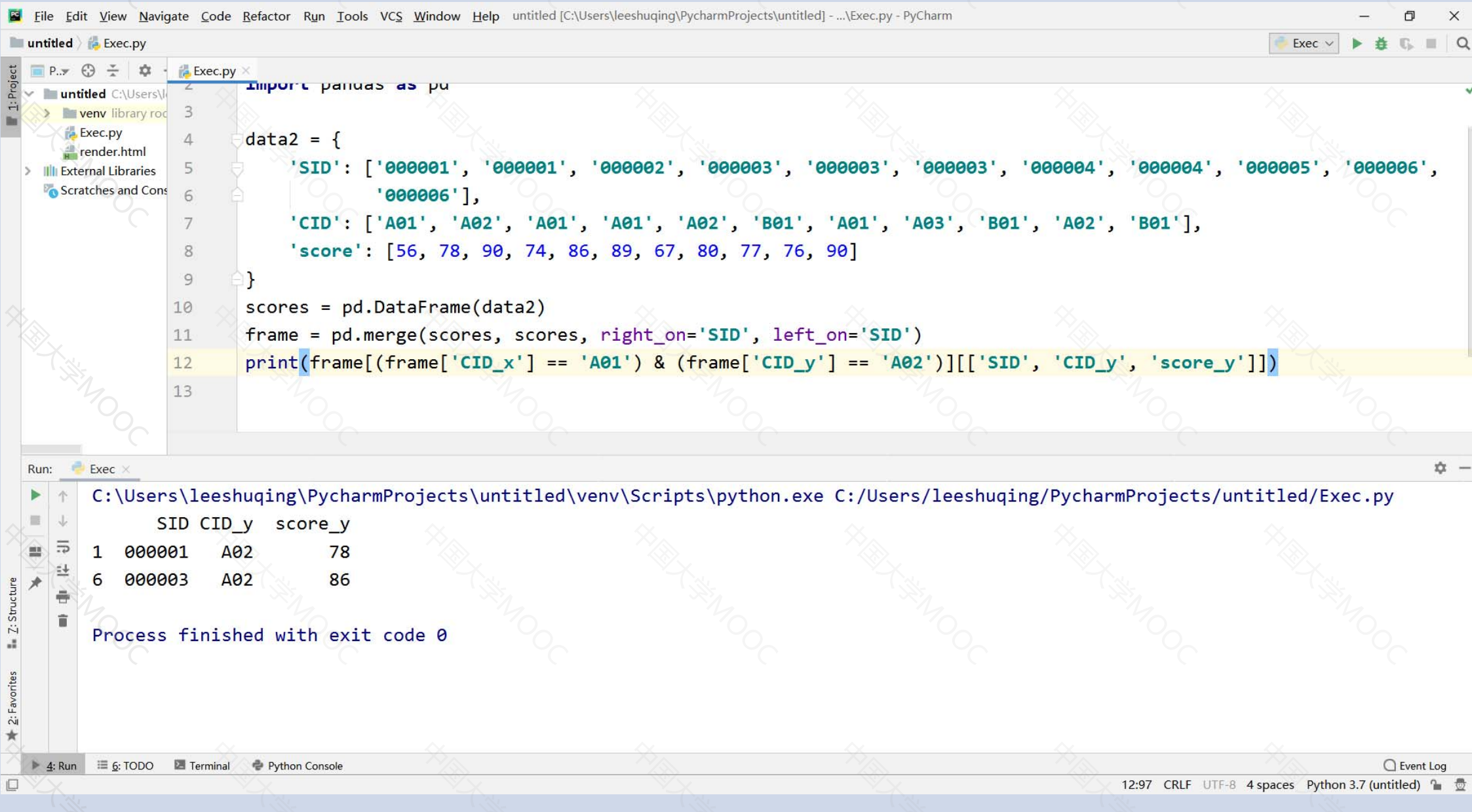
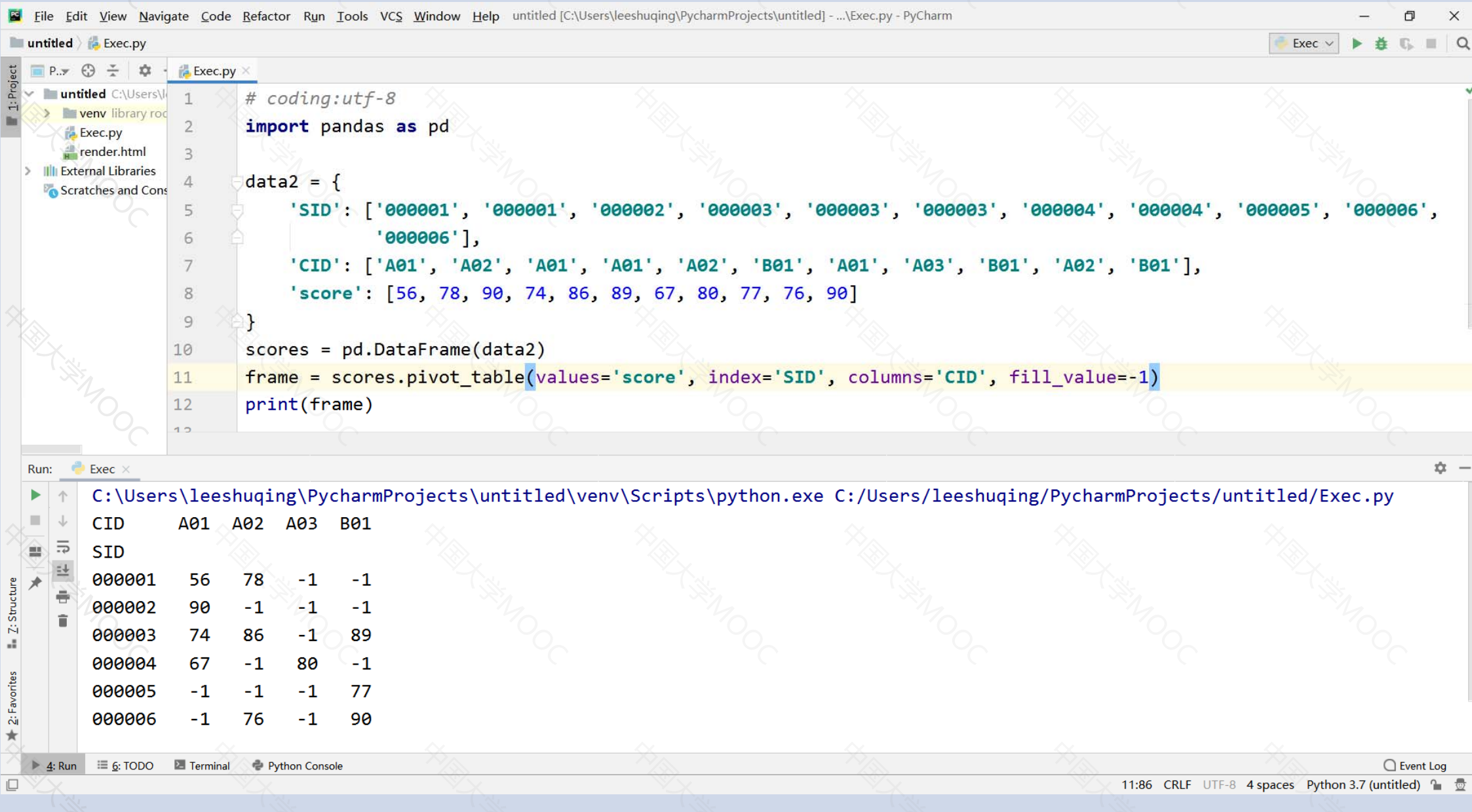
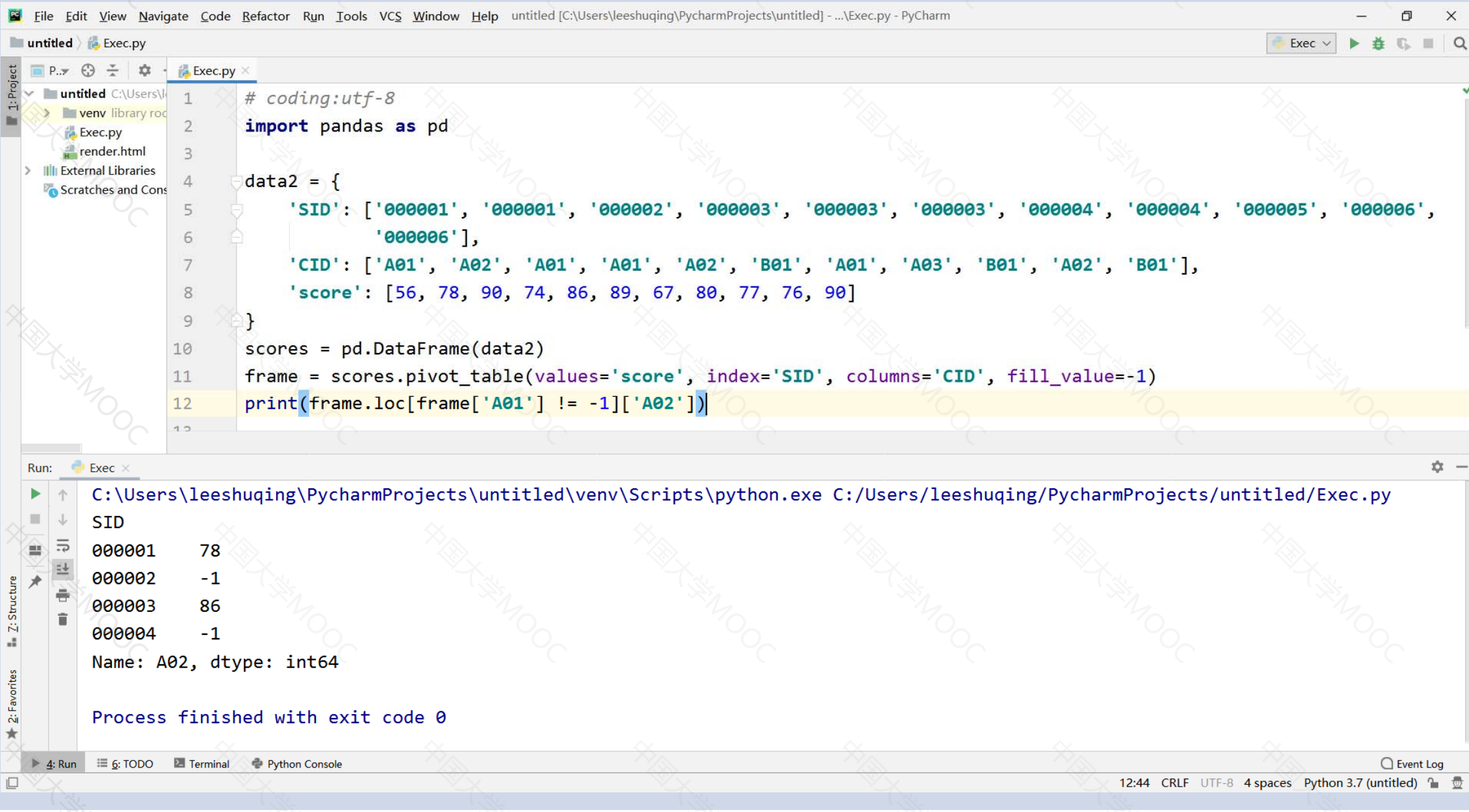
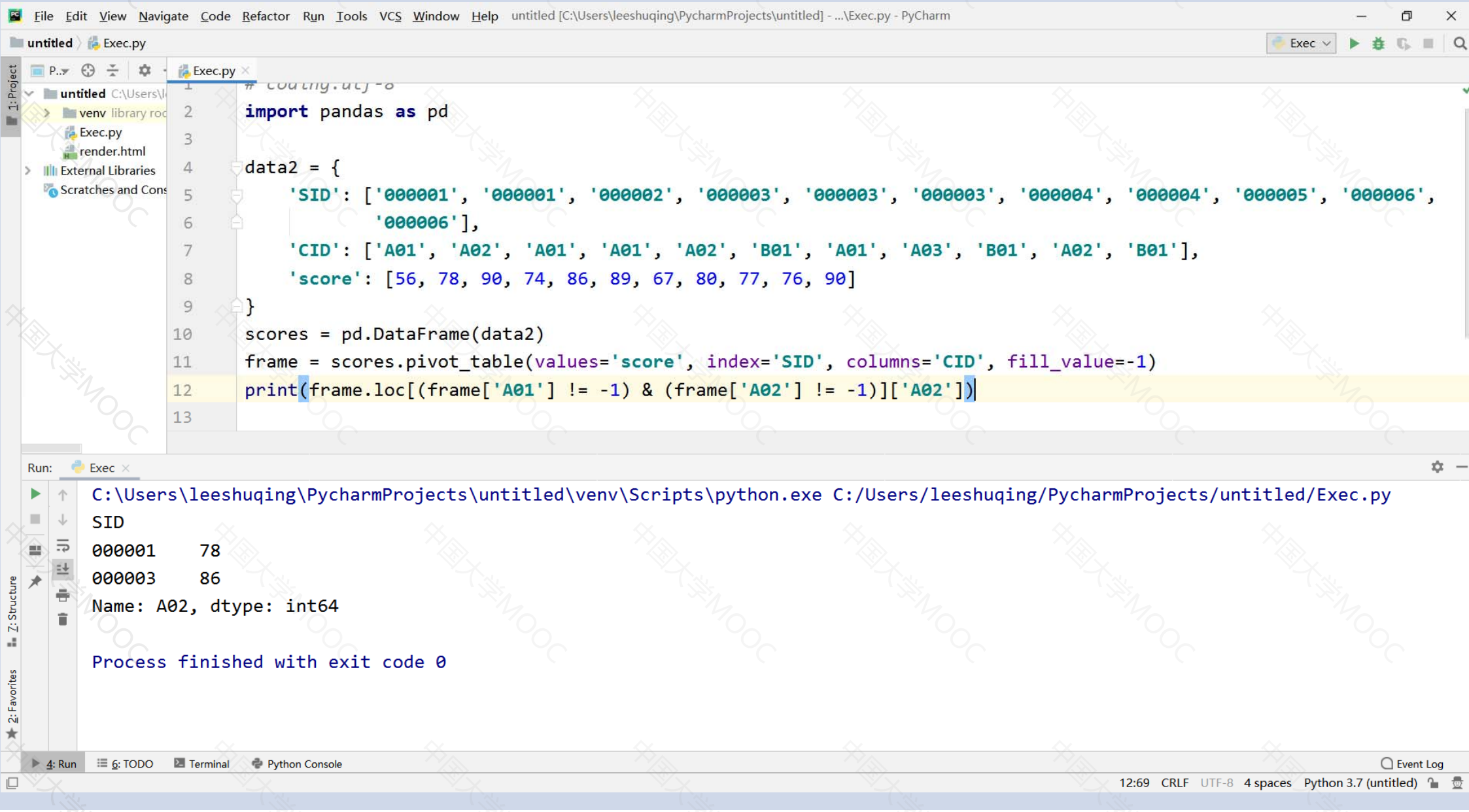
Scratches and Cons
1 # coding:utf-8
2 import pandas as pd
3
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 frame = pd.merge(scores, scores, right_on='SID', left_on='SID')
12 print(frame)
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID_x score_x CID_y score_y
0 000001 A01 56 A01 56
1 000001 A01 56 A02 78
2 000001 A02 78 A01 56
3 000001 A02 78 A02 78
4 000002 A01 90 A01 90
5 000003 A01 74 A01 74
6 000003 A01 74 A02 86
7 000003 A01 74 B01 89
4: Run
6: TODO
Terminal
Python Console
Event Log
11:64 CRLF UTF-8 4 spaces Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
Exec
Exec.py
untitled C:\Users\
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
import pandas as pd
data2 = {
'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
'000006'],
'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
}
scores = pd.DataFrame(data2)
frame = pd.merge(scores, scores, right_on='SID', left_on='SID')
print(frame[(frame['CID_x'] == 'A01') & (frame['CID_y'] == 'A02')][['SID', 'CID_y', 'score_y']])
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID CID_y score_y
1 000001 A02 78
6 000003 A02 86
Process finished with exit code 0
4: Run
6: TODO
Terminal
Python Console
Event Log
12:97 CRLF UTF-8 4 spaces Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
Exec
Exec.py
untitled C:\Users\
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
1 # coding:utf-8
2 import pandas as pd
3
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 frame = scores.pivot_table(values='score', index='SID', columns='CID', fill_value=-1)
12 print(frame)
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
CID A01 A02 A03 B01
SID
000001 56 78 -1 -1
000002 90 -1 -1 -1
000003 74 86 -1 89
000004 67 -1 80 -1
000005 -1 -1 -1 77
000006 -1 76 -1 90
1: Project
7: Structure
2: Favorites
4: Run
6: TODO
Terminal
Python Console
Event Log
11:86 CRLF UTF-8 4 spaces Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
Exec
Exec.py
untitled C:\Users\
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
1 # coding:utf-8
2 import pandas as pd
3
4 data2 = {
5 'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
6 '000006'],
7 'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
8 'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
9 }
10 scores = pd.DataFrame(data2)
11 frame = scores.pivot_table(values='score', index='SID', columns='CID', fill_value=-1)
12 print(frame.loc[frame['A01'] != -1]['A02'])
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID
000001 78
000002 -1
000003 86
000004 -1
Name: A02, dtype: int64
Process finished with exit code 0
4: Run 6: TODO Terminal Python Console Event Log
12:44 CRLF UTF-8 4 spaces Python 3.7 (untitled)


File Edit View Navigate Code Refactor Run Tools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled Exec.py
Exec
Exec.py
untitled C:\Users\
venv library roo
Exec.py
render.html
External Libraries
Scratches and Cons
# coding:utf-8
import pandas as pd
data2 = {
'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005', '000006',
'000006'],
'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
}
scores = pd.DataFrame(data2)
frame = scores.pivot_table(values='score', index='SID', columns='CID', fill_value=-1)
print(frame.loc[(frame['A01'] != -1) & (frame['A02'] != -1)]['A02'])
Run: Exec
C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
SID
000001 78
000003 86
Name: A02, dtype: int64
Process finished with exit code 0
4: Run
6: TODO
Terminal
Python Console
Event Log
12:69 CRLF UTF-8 4 spaces Python 3.7 (untitled)

一次不学多，下次再学