Write a Pandas program to display the ID for those employees who did

two or more jobs in the past.

+-------------+------------+------------+------------+---------------+

| EMPLOYEE\_ID | START\_DATE | END\_DATE | JOB\_ID | DEPARTMENT\_ID |

+-------------+------------+------------+------------+---------------+

| 102 | 2001-01-13 | 2006-07-24 | IT\_PROG | 60 |

| 101 | 1997-09-21 | 2001-10-27 | AC\_ACCOUNT | 110 |

| 101 | 2001-10-28 | 2005-03-15 | AC\_MGR | 110 |

| 201 | 2004-02-17 | 2007-12-19 | MK\_REP | 20 |

| 114 | 2006-03-24 | 2007-12-31 | ST\_CLERK | 50 |

| 122 | 2007-01-01 | 2007-12-31 | ST\_CLERK | 50 |

| 200 | 1995-09-17 | 2001-06-17 | AD\_ASST | 90 |

| 176 | 2006-03-24 | 2006-12-31 | SA\_REP | 80 |

| 176 | 2007-01-01 | 2007-12-31 | SA\_MAN | 80 |

| 200 | 2002-07-01 | 2006-12-31 | AC\_ACCOUNT | 90 |

+-------------+------------+------------+------------+---------------+

Program:

import pandas as pd

# Creating a DataFrame with the given data

data = {

'EMPLOYEE\_ID': [102, 101, 101, 201, 114, 122, 200, 176, 176, 200],

'START\_DATE': ['2001-01-13', '1997-09-21', '2001-10-28', '2004-02-17', '2006-03-24', '2007-01-01', '1995-09-17', '2006-03-24', '2007-01-01', '2002-07-01'],

'END\_DATE': ['2006-07-24', '2001-10-27', '2005-03-15', '2007-12-19', '2007-12-31', '2007-12-31', '2001-06-17', '2006-12-31', '2007-12-31', '2006-12-31'],

'JOB\_ID': ['IT\_PROG', 'AC\_ACCOUNT', 'AC\_MGR', 'MK\_REP', 'ST\_CLERK', 'ST\_CLERK', 'AD\_ASST', 'SA\_REP', 'SA\_MAN', 'AC\_ACCOUNT'],

'DEPARTMENT\_ID': [60, 110, 110, 20, 50, 50, 90, 80, 80, 90]

}

df = pd.DataFrame(data)

# Convert START\_DATE and END\_DATE columns to datetime

df['START\_DATE'] = pd.to\_datetime(df['START\_DATE'])

df['END\_DATE'] = pd.to\_datetime(df['END\_DATE'])

# Group by EMPLOYEE\_ID and count the number of unique JOB\_IDs for each employee

job\_counts = df.groupby('EMPLOYEE\_ID')['JOB\_ID'].nunique()

# Filter employees with two or more jobs

multiple\_jobs\_employees = job\_counts[job\_counts >= 2].index

# Display the result

result = df[df['EMPLOYEE\_ID'].isin(multiple\_jobs\_employees)][['EMPLOYEE\_ID']].drop\_duplicates()

print(result)

Output:

EMPLOYEE\_ID

1 101

6 200

7 176