2. Write a Pandas program to display the ID for those employees who did two or more jobs in the past.

Aim

The aim of this program is to display the IDs of employees who have held two or more different jobs in the past using Pandas.

Algorithm

1. **Import Pandas**: Import the Pandas library to handle the data in a DataFrame.
2. **Create DataFrame**: Create a DataFrame using the provided data.
3. **Group by EMPLOYEE_ID**: Group the data by 'EMPLOYEE_ID' to count the number of distinct jobs each employee had.
4. **Filter Employees**: Filter employees who had two or more jobs by checking the count of jobs.
5. **Print Output**: Print the IDs of employees who had two or more jobs.

Code

```
import pandas as pd

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)

job_counts = df.groupby('EMPLOYEE_ID')['JOB_ID'].nunique()

employees_with_multiple_jobs = job_counts[job_counts >= 2].index

print("Employees who had two or more jobs:")

print(employees_with_multiple_jobs.tolist())
```
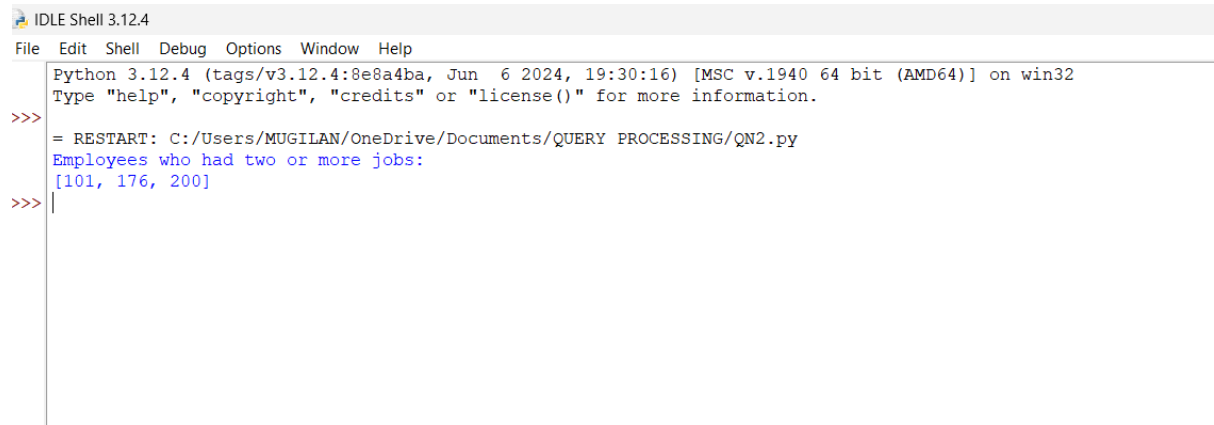
OUTPUT

RESULT

The program successfully identifies and prints the IDs of employees who had two or more different jobs in the past.