EXP-3

Aim: To Execute pandas program to display the details of jobs in descending sequence on job title

pseudocode:

* import the required library pandas as pd
* create a Dataframe with columns job_title, job_id, min_salary, max_salary
* use sort_values() method in job_title column with ascending = False to sort
* Display the sorted DataFrame

Sample Input:

Job database (job_id, job_title, min_salary)

Sample Output:

job_id	job_title	min_salary	max_salary
st_man	stockmanager	5500	8500
st_clerk	stockclerk	2008	3000
st_clerk	shippingclerk	2700	5500
st_rep	salesrep	6000	12008

Result:

Therefore the pandas program for sorting job titles in descending order has been executed successfully

```python
import pandas as pd

data = {
    'JOB_ID': ['AD_PRES', 'AD_VP', 'AD_ASST', 'FI_MGR', 'FI_ACCOUNT', 'AC_MGR', 'AC_ACCOUNT',
               'SA_MAN', 'SA_REP', 'PU_MAN', 'PU_CLERK', 'ST_MAN', 'ST_CLERK', 'SH_CLERK',
               'IT_PROG', 'MK_MAN', 'MK_REP', 'HR_REP', 'PR_REP'],
    'JOB_TITLE': ['President', 'Administration Vice President', 'Administration Assistant',
                  'Finance Manager', 'Accountant', 'Accounting Manager', 'Public Accountant',
                  'Sales Manager', 'Sales Representative', 'Purchasing Manager', 'Purchasing Clerk',
                  'Stock Manager', 'Stock Clerk', 'Shipping Clerk', 'Programmer',
                  'Marketing Manager', 'Marketing Representative', 'Human Resources Representative',
                  'Public Relations Representative'],
    'MIN_SALARY': [20080, 15000, 3000, 8200, 4200, 8200, 4200, 10000, 6000, 8000, 2500, 5500,
                   2008, 2500, 4000, 9000, 4000, 4000, 4500],
    'MAX_SALARY': [40000, 30000, 6000, 16000, 9000, 16000, 9000, 20080, 12008, 15000, 5500,
                   8500, 5000, 5500, 10000, 15000, 9000, 9000, 10500]
}

df = pd.DataFrame(data)
df.sort_values('JOB_TITLE', ascending=False, inplace=True)
print(df)
```

IDLE Shell 3.12.4

File Edit Shell Debug Options Window Help

```
Python 3.12.4 (tags/v3.12.4:8e8a4ba, Jun  6 2024, 19:30:16) [MSC v.1940 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 1.py
[ 10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
 190 200 210 220 230 240 250 260 270]
>>>
======= RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 2.py ======
[101 200 176]
>>>
======= RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 3.py ======
        JOB_ID                          JOB_TITLE  MIN_SALARY  MAX_SALARY
11      ST_MAN                      Stock Manager        5500        8500
12    ST_CLERK                        Stock Clerk        2008        5000
13    SH_CLERK                     Shipping Clerk        2500        5500
8       SA_REP                Sales Representative        6000       12008
7       SA_MAN                       Sales Manager       10000       20080
9       PU_MAN                  Purchasing Manager        8000       15000
10    PU_CLERK                    Purchasing Clerk        2500        5500
18     PR_REP  Public Relations Representative        4500       10500
6   AC_ACCOUNT                   Public Accountant        4200        9000
14     IT_PROG                          Programmer        4000       10000
0      AD_PRES                           President       20080       40000
16      MK_REP          Marketing Representative        4000        9000
15      MK_MAN                   Marketing Manager        9000       15000
17      HR_REP   Human Resources Representative        4000        9000
3       FI_MGR                   Finance Manager        8200       16000
1        AD_VP    Administration Vice President       15000       30000
2      AD_ASST         Administration Assistant        3000        6000
5       AC_MGR                Accounting Manager        8200       16000
4   FI_ACCOUNT                        Accountant        4200        9000
>>>
```

Ln: 32 Col: