7 Aim:

To execute pandas program to creat a pivot table and find the maximum and minimum sale value of the items.

Pseudo code:

* Load the data into pandas DF.
* Creat a pivot table using the pivot_table() function to summarize sales data by item, finding the maximum and minimum
* Extract the maximum and minimum sales value from table.
* Display the results.

Sample input:

Sales_data_table.

Sample output:

Item	max Sal value	min_sale_value
A	200	120
B	150	130
C	180	175

Result:

Therfore the pandas program for maximum sales value and minimum sales value executed succesfully.

```python
import pandas as pd

# Load the sales data
sales_data = pd.read_csv("C:/Users/abhip/OneDrive/Documents/DSA05 LAB/sales.csv")

# Create a Pivot table to find the maximum and minimum sales for each item
pivot_table = sales_data.pivot_table(values='Sales', index='Item', aggfunc=['max', 'min'])

# Rename the columns for clarity
pivot_table.columns = ['Max Sales', 'Min Sales']

# Display the Pivot table
print("Pivot Table showing Maximum and Minimum Sales for each item:")
print(pivot_table)
```

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 5.py ==========

========== RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 6.py ==========

========== RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 7.py ==========
Pivot Table showing Maximum and Minimum Sales for each item:
        Max Sales  Min Sales
Item
Item_A        500        200
Item_B        450        300
Item_C        500        300
>>>
```