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9 Aim:
To execute pandas program to create a pivot table and find the total sale amount region wise, manager wise, sales man wise.

Pseudo code:
* Import the necessary libraries
* load the sales data into a pandas df.
* Create a pivot table using the pivot_table function and summarize the data by region, manager or salesman version.
* Calculating the sum of the sales_amt

Sample input.
Sales_database(order date, region, manager, salesman, item, unit_price, sales cost)

Sample output:

Region	Manager	Salesman	Sales cost.
Central	Morgan	Luis	43126.0
East	Timothy	David	28000.0
West	Timothy	Stephen	6075.0

Result:
Therefore the pandas execution for total sales amount executed successfully.

```python
import pandas as pd

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

# Create a Pivot table to find the total sale amount based on Region, Manager, and SalesMan
pivot_table = sales_data.pivot_table(values='Sale_amt', index=['Region', 'Manager', 'SalesMan'], aggfunc='sum')

# Display the Pivot table
print("Pivot Table showing total sale amount region-wise, manager-wise, and sales man-wise:")
print(pivot_table)
```

IDLE Shell 3.12.4

File Edit Shell Debug Options Window Help

```
>>> = RESTART: C:/Users/abhip/AppData/Local/Programs/Python/Python312/program 9.py =
Pivot Table showing total sale amount region-wise, manager-wise, and sales man-w
ise:
                          Sale_amt
Region  Manager SalesMan
Central Douglas John         250.0
        Hermann Luis       150948.0
                Shelli      25000.0
                Sigal      121820.0
        Martha  Steven      89850.0
        Timothy David        6075.0
East    Douglas Karen       40500.0
        Martha  Alexander  231076.0
                Diana       14500.0
West    Douglas Michael     38336.0
        Timothy Stephen     67088.0
>>>
```

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