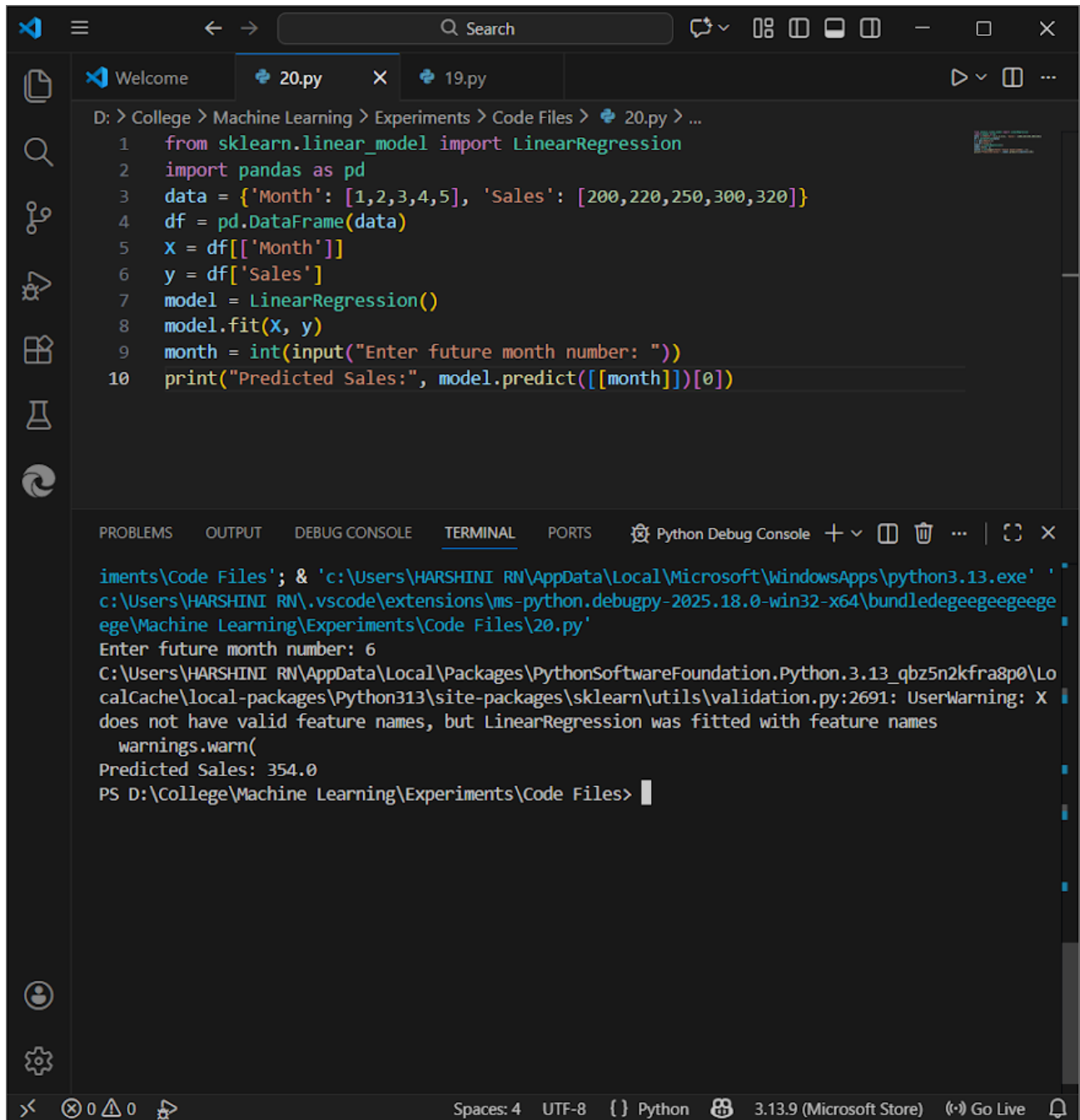


EXPERIMENT – 20

OUTPUT:



The image shows a Visual Studio Code (VS Code) editor window with a Python file named `20.py` open. The file path is `D:\College\Machine Learning\Experiments\Code Files\20.py`. The code in the file is as follows:

```
1 from sklearn.linear_model import LinearRegression
2 import pandas as pd
3 data = {'Month': [1,2,3,4,5], 'Sales': [200,220,250,300,320]}
4 df = pd.DataFrame(data)
5 X = df[['Month']]
6 y = df['Sales']
7 model = LinearRegression()
8 model.fit(X, y)
9 month = int(input("Enter future month number: "))
10 print("Predicted Sales:", model.predict([[month]])[0])
```

The terminal output shows the execution of the script. It prompts the user to enter a future month number, which is 6. The output is "Predicted Sales: 354.0". There is a warning message from sklearn: "UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names".

```
iments\Code Files'; & 'c:\Users\HARSHINI RN\AppData\Local\Microsoft\WindowsApps\python3.13.exe' '
c:\Users\HARSHINI RN\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundledegeeegeeege
ege\Machine Learning\Experiments\Code Files\20.py'
Enter future month number: 6
C:\Users\HARSHINI RN\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.13_qbz5n2kfra8p0\Lo
calCache\local-packages\Python313\site-packages\sklearn\utils\validation.py:2691: UserWarning: X
does not have valid feature names, but LinearRegression was fitted with feature names
  warnings.warn(
Predicted Sales: 354.0
PS D:\College\Machine Learning\Experiments\Code Files>
```

The status bar at the bottom indicates the file is a Python script (Python 3.13.9 (Microsoft Store)) and shows 4 spaces, UTF-8 encoding, and a Go Live button.