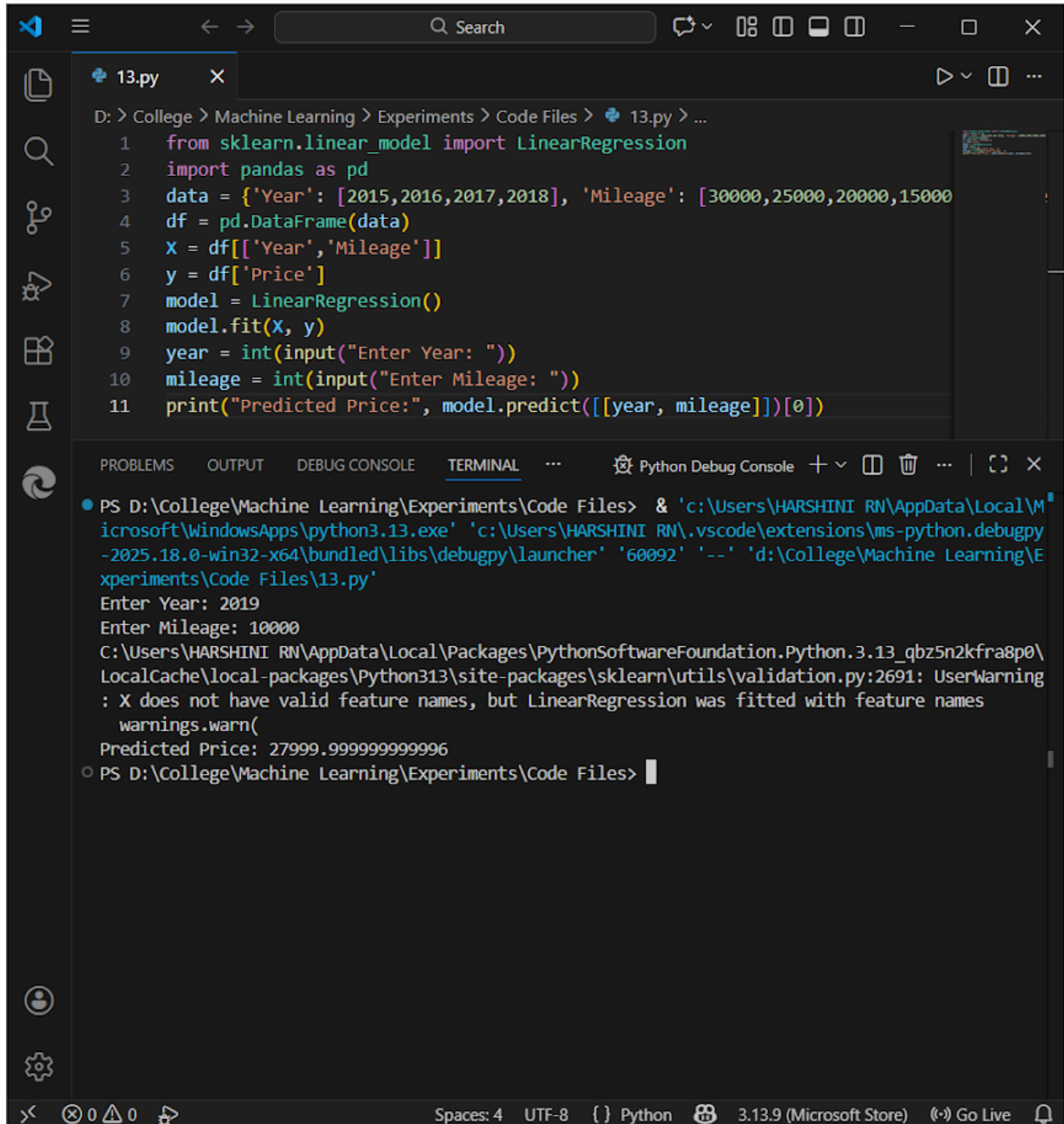


EXPERIMENT – 13

OUTPUT:



The screenshot displays the Visual Studio Code (VS Code) interface. The editor window shows a file named `13.py` with the following Python code:

```
1 from sklearn.linear_model import LinearRegression
2 import pandas as pd
3 data = {'Year': [2015, 2016, 2017, 2018], 'Mileage': [30000, 25000, 20000, 15000]}
4 df = pd.DataFrame(data)
5 X = df[['Year', 'Mileage']]
6 y = df['Price']
7 model = LinearRegression()
8 model.fit(X, y)
9 year = int(input("Enter Year: "))
10 mileage = int(input("Enter Mileage: "))
11 print("Predicted Price:", model.predict([[year, mileage]])[0])
```

The terminal window at the bottom shows the execution of the script. It starts with the command prompt `PS D:\College\Machine Learning\Experiments\Code Files>` and the command to run the script using the Python Debug Console. The output shows the user entering `2019` for the year and `10000` for the mileage. A warning message is displayed: `UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names`. The final output is `Predicted Price: 27999.999999999996`.

```
PS D:\College\Machine Learning\Experiments\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\bundled\libs\debugpy\launcher' '60092' '--' 'd:\College\Machine Learning\Experiments\Code Files\13.py'
Enter Year: 2019
Enter Mileage: 10000
C:\Users\HARSHINI RN\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.13_qbz5n2kfra8p0\LocalCache\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 Price: 27999.999999999996
PS D:\College\Machine Learning\Experiments\Code Files>
```

The status bar at the bottom indicates the file is encoded in UTF-8, uses Python 3.13.9 (Microsoft Store), and has 4 spaces configured.