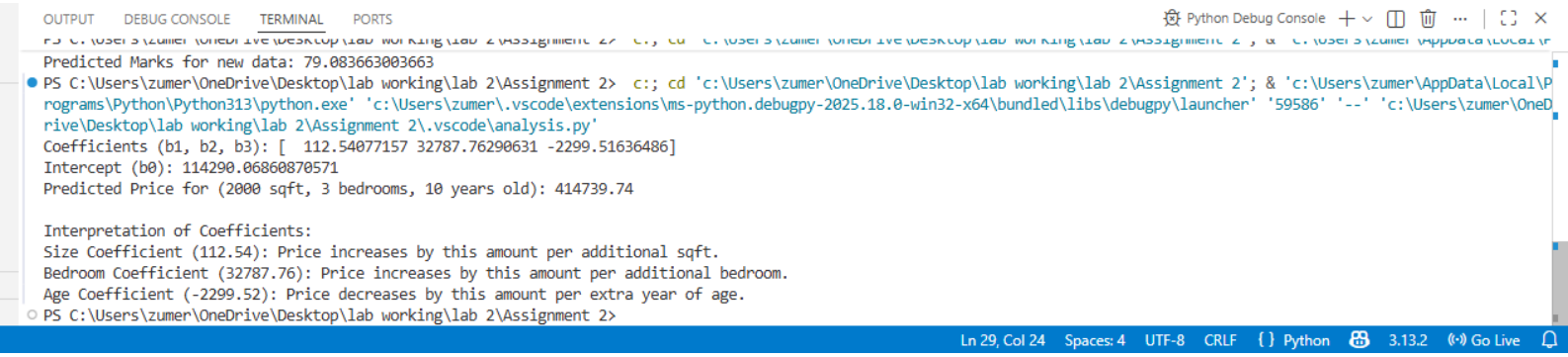
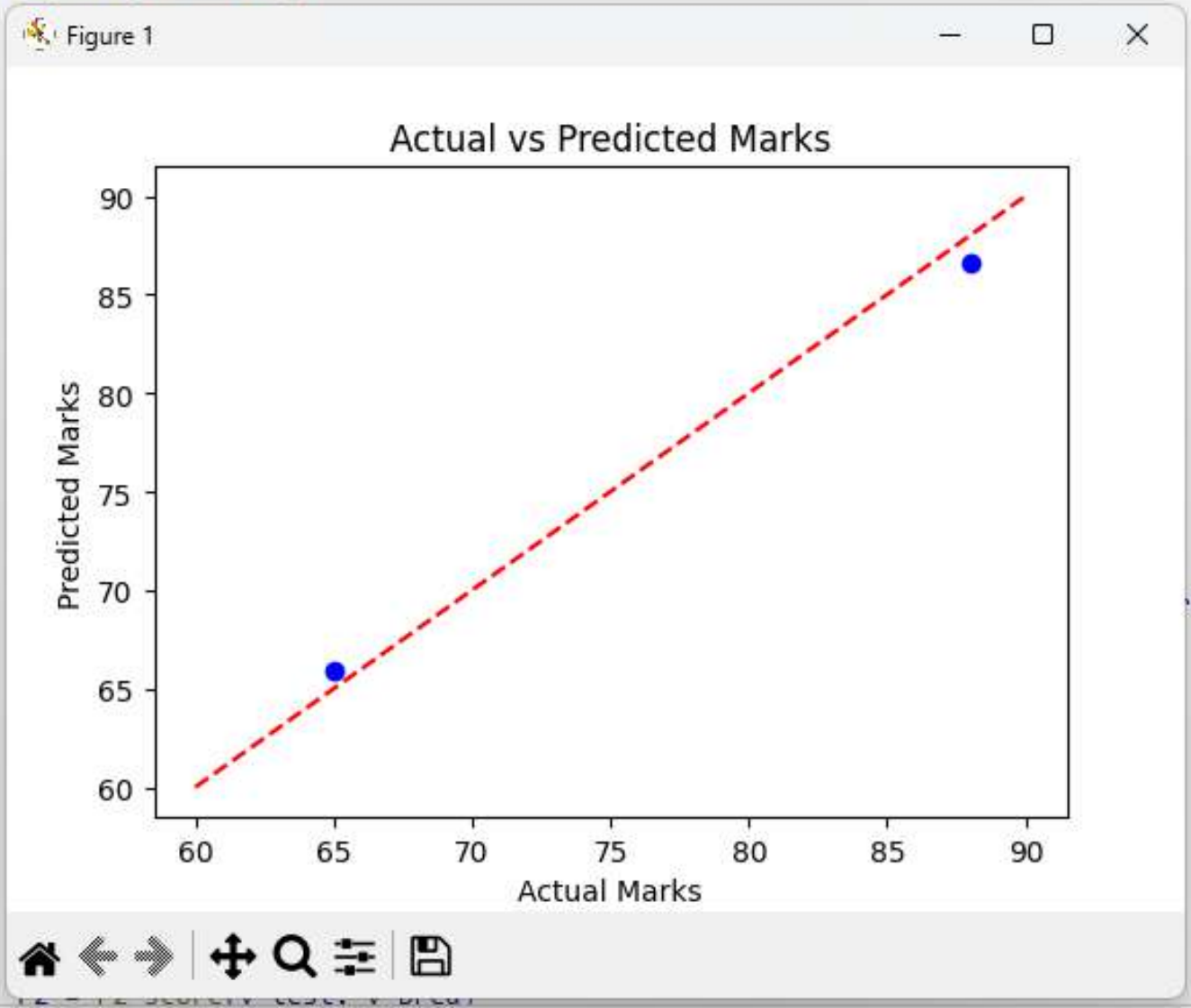

OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python Debug Console
Predicted Marks for new data: 79.083663003663
PS C:\Users\zumer\OneDrive\Desktop\lab working\lab 2\Assignment 2> c:; cd 'c:\Users\zumer\OneDrive\Desktop\lab working\lab 2\Assignment 2'; & 'c:\Users\zumer\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\zumer\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '59586' '--' 'c:\Users\zumer\OneDrive\Desktop\lab working\lab 2\Assignment 2\.vscode\analysis.py'
Coefficients (b1, b2, b3): [112.54077157 32787.76290631 -2299.51636486]
Intercept (b0): 114290.06860870571
Predicted Price for (2000 sqft, 3 bedrooms, 10 years old): 414739.74
Interpretation of Coefficients:
Size Coefficient (112.54): Price increases by this amount per additional sqft.
Bedroom Coefficient (32787.76): Price increases by this amount per additional bedroom.
Age Coefficient (-2299.52): Price decreases by this amount per extra year of age.
PS C:\Users\zumer\OneDrive\Desktop\lab working\lab 2\Assignment 2>
Ln 29, Col 24
Spaces: 4
UTF-8
CRLF
Python
3.13.2
Go Live

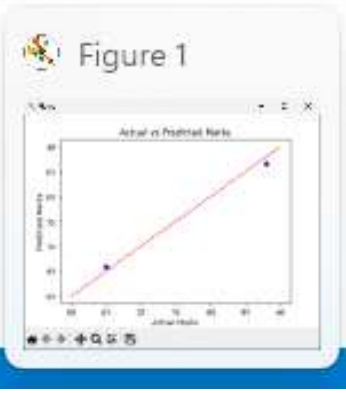
analysis2.py

```
1  import pandas as pd
```



OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\zumer\OneDrive\Desktop\lab working\lab 2>  & 'c:\Users\zumer\AppData\Local\Programs
gpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '64229' '--' 'c:\Users\zumer\OneDrive\De
4           6           6          88
5           7           5          90
6           8           5          92
7           9           4          94
8          10           4          95
9          11           3          97
R² Score: 0.9898645431051172
Mean Squared Error: 1.3404141743482463
```

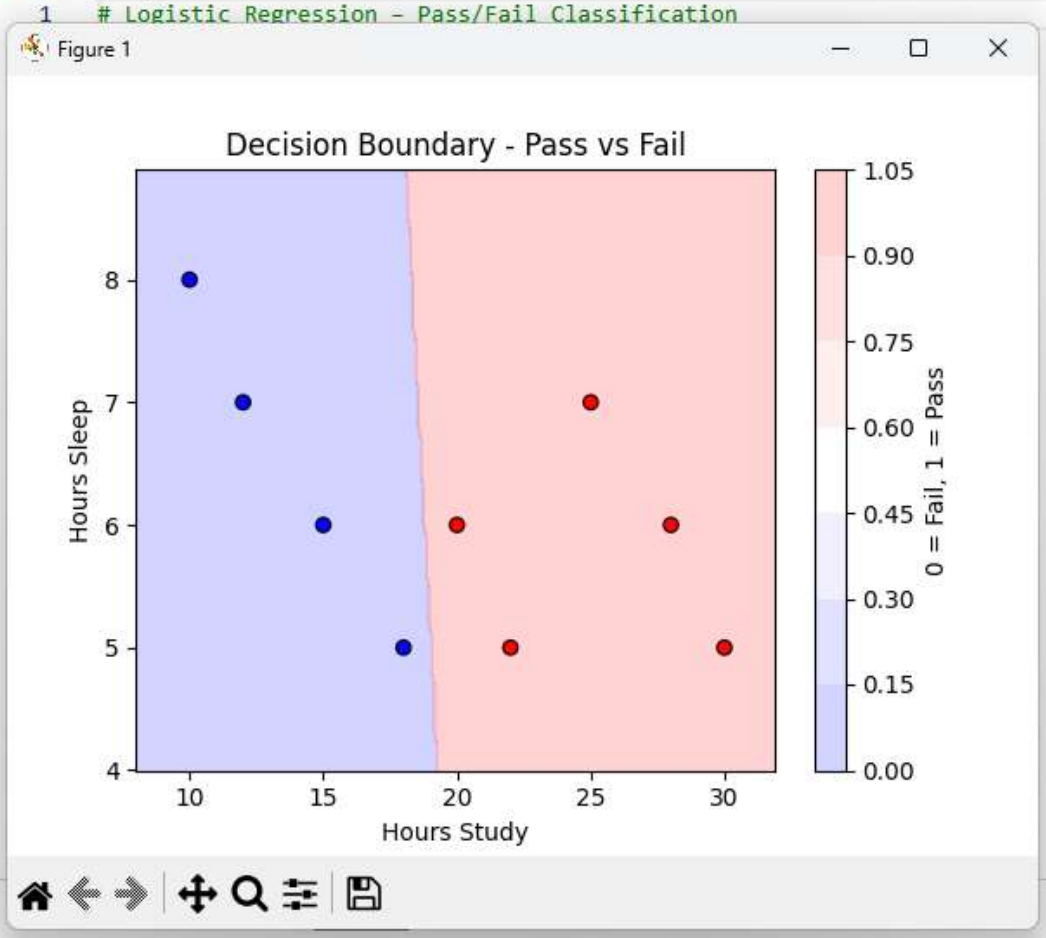


Run Terminal Help

lab 2

analysis3.py

```
# Logistic Regression - Pass/Fail Classification
```

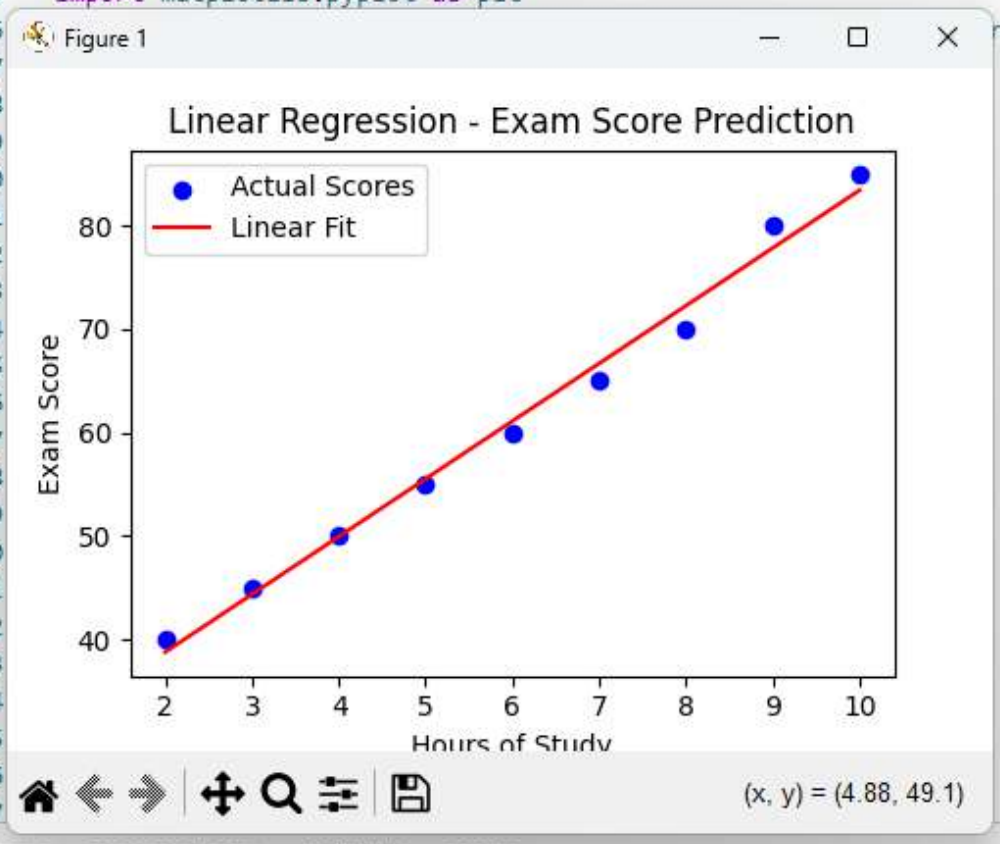



```
PS C:\Users\zumer\OneDrive\Desktop\lab working\lab 2>  c:; cd 'c:\Users\zumer\OneDrive\Desktop\lab working\lab 2';
ython.exe' 'c:\Users\zumer\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher'
ab 2\analysis3.py'
Model Accuracy: 1.00
Confusion Matrix:
 [[4 0]
 [0 5]]
c:\Users\zumer\AppData\Local\Programs\Python\Python313\Lib\site-packages\sklearn\utils\validation.py:2749: UserWar
ssion was fitted with feature names
  warnings.warn(
```

analysis5.py

```python
# Q5. Comparison – Linear vs Logistic Regression

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```



OUTPUT DEBUG CONSOLE TERMINAL PORTS

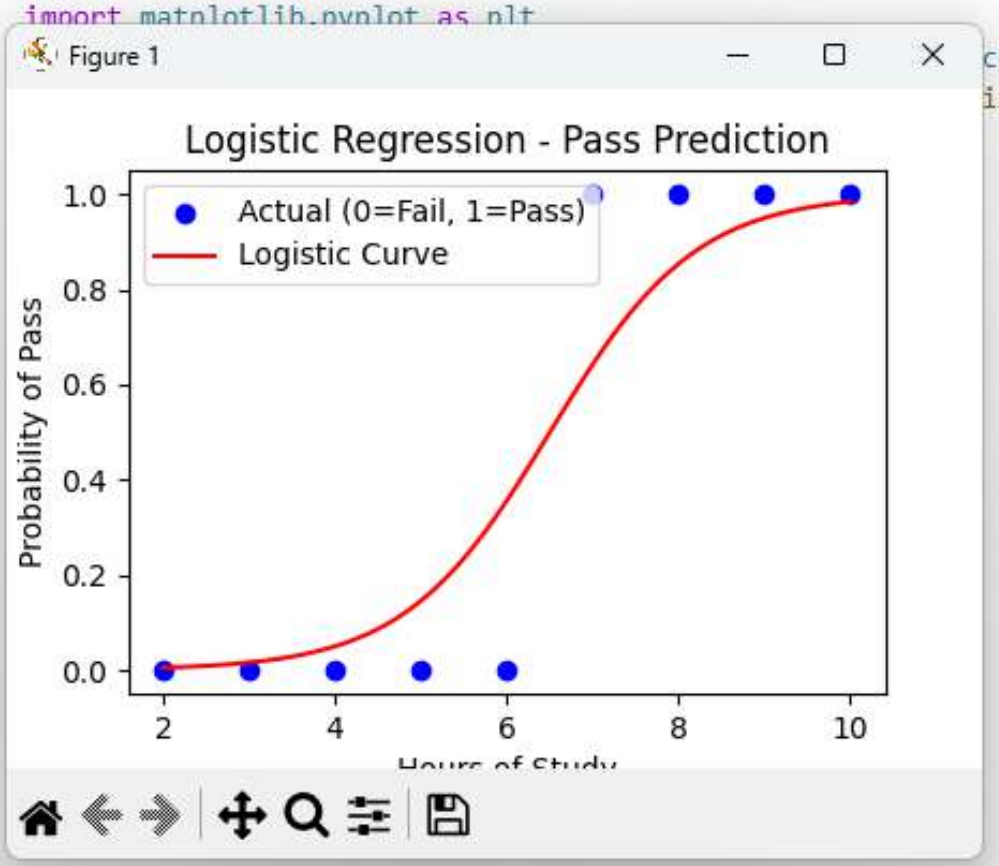
```
PS C:\Users\zumer\OneDrive\Desktop\lab working\lab 2>  c:; cd 'c:\Users\zumer\OneDrive\Desktop\lab working\lab
l\Programs\Python\Python313\python.exe' 'c:\Users\zumer\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x
56739' '--' 'c:\Users\zumer\OneDrive\Desktop\lab working\lab 2\analysis5.py'
7           9          80     1
8          10          85     1
c:\Users\zumer\AppData\Local\Programs\Python\Python313\Lib\site-packages\sklearn\utils\validation.py:2749: Use
ture names, but LinearRegression was fitted with feature names
  warnings.warn(

Predicted Exam Score for 8 hours study: 72.28
```

analysis5.py

```python
# Q5. Comparison – Linear vs Logistic Regression

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```




```python
lin_reg = LinearRegression()
```

OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\zumer\OneDrive\Desktop\lab working\lab 2>  c:; cd 'c:\Users\zumer\OneDrive\Desktop\lab work
l\Programs\Python\Python313\python.exe' 'c:\Users\zumer\.vscode\extensions\ms-python.debugpy-2025.18.0-
56739' '--' 'c:\Users\zumer\OneDrive\Desktop\lab working\lab 2\analysis5.py'
Logistic Regression Accuracy: 1.00
Confusion Matrix:
 [[5 0]
 [0 4]]
c:\Users\zumer\AppData\Local\Programs\Python\Python313\Lib\site-packages\sklearn\utils\validation.py:27
ture names, but LogisticRegression was fitted with feature names
  warnings.warn(
```