

LAB Logbook

Lab 1

Week 1

```
: plt.figure(figsize=(8, 5))  
# Original data points  
plt.plot( X, Y, linestyle='None',marker='D', markersize=8, markerfacecolor='cyan', markeredgecolor='black', label='Original Data')  
# Fitted regression line  
plt.plot( X, np.array(W * X + b), linestyle=':', linewidth=2.5, color='magenta', label='Fitted Regression Line')  
# Axis Labels  
plt.xlabel('Input Feature (X)', fontsize=12)  
plt.ylabel('Target Value (Y)', fontsize=12)  
# Title  
plt.title('Linear Regression Fit', fontsize=14, fontweight='bold')  
# Grid for readability  
plt.grid(True, linestyle=':', linewidth=0.8)  
# Legend  
plt.legend(frameon=True, edgecolor='black')  
plt.show()
```

