

LAB Logbook

Lab 1

Week 1

```
: plt.figure(figsize=(8, 5))
# Original data points
plt.plot( X, 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()
```

