

```
/Users/son-eungyul/Desktop/pythonProject/venv/bin/python /Users/son-eungyul/Desktop/UNLV/day5/e  
Total windows: 146 Feature dim: 45  
Class counts: {np.str_('circle'): np.int64(32), np.str_('pendulum'): np.int64(30), np.str_('x a  
Stopped at epoch=120; best epoch=120, best val logloss=0.0343  
  
== Test Metrics (Macro Avg) ==  
Accuracy : 1.0  
Precision: 1.0  
Recall   : 1.0  
F1-score : 1.0  
  
Confusion matrix (rows=true, cols=pred):  
          pred_circle  pred_pendulum ...  pred_y axis  pred_z axis  
true_circle        7          0  ...          0          0  
true_pendulum      0          6  ...          0          0  
true_x axis        0          0  ...          0          0  
true_y axis        0          0  ...          5          0  
true_z axis        0          0  ...          0          6  
  
[5 rows x 5 columns]  
  
Saved figures:  
roc_auc_mlpBP_test.png  
logloss_mlpBP_epochs.png  
mlpBP_architecture_mlpBP.png  
first_layer_weights_mlpBP.png  
  
Process finished with exit code 0
```