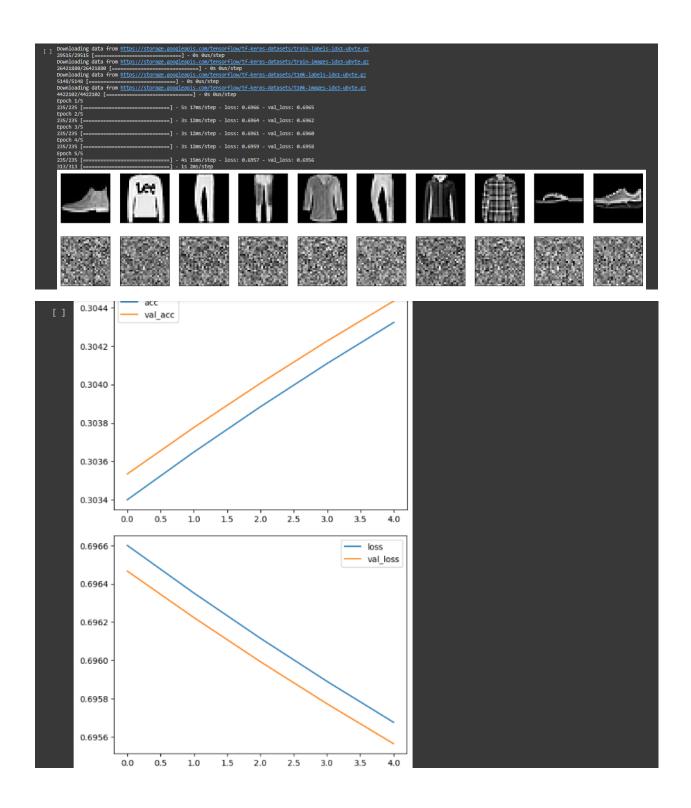
ICP 8 REPORT

```
# Visualize original and reconstructed images
import matplotlib.pyplot as plt
      n = 10
      plt.figure(figsize=(20, 4))
      for i in range(n):

ax = plt.subplot(2, n, i + 1)

plt.imshow(x_test[i].reshape(28, 28))
           plt.gray()
ax.get_xaxis().set_visible(False)
ax.get_yaxis().set_visible(False)
            ax = plt.subplot(2, n, i + 1 + n)
plt.imshow(x_test_predicted[i].reshape(28, 28))
            plt.gray()
            ax.get_xaxis().set_visible(False)
            ax.get_yaxis().set_visible(False)
      plt.show()
       # Calculate accuracy
      loss = history.history['loss']
val_loss = history.history['val_loss']
accuracy = [1 - x for x in loss]
       val_accuracy = [1 - x for x in val_loss]
       plt.plot(accuracy, label='acc')
       plt.plot(val_accuracy, label='val_acc')
       plt.legend()
       plt.show()
       # Plot loss
      plt.plot(loss, label='loss')
plt.plot(val_loss, label='val_loss')
      plt.legend()
      plt.show()
```



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```
# Visualize
       import matplotlib.pyplot as plt
       plt.figure(figsize=(20, 4))
        for i in range(n):
    ax = plt.subplot(2, n, i + 1)
    plt.imshow(x_test[i].reshape(28, 28))
              plt.gray()
             ax.get_xaxis().set_visible(False)
ax.get_yaxis().set_visible(False)
             ax = plt.subplot(2, n, i + 1 + n)
plt.imshow(x_test_predicted[i].reshape(28, 28))
             plt.gray()
             ax.get_xaxis().set_visible(False)
ax.get_yaxis().set_visible(False)
       plt.show()
      loss = history.history['loss']
val_loss = history.history['val_loss']
accuracy = [1 - x for x in loss]
val_accuracy = [1 - x for x in val_loss]
      # Plot accuracy
plt.plot(accuracy, label='acc')
       plt.plot(val_accuracy, label='val_acc')
       plt.legend()
       plt.show()
        # Plot loss
       plt.plot(loss, label='loss')
plt.plot(val_loss, label='val_loss')
       plt.legend()
       plt.show()
```

