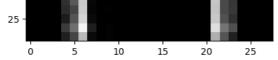
```
import numpy as np
import matplotlib.pyplot as plt
import tensorflow as tf
from\ tensorflow.keras\ import\ layers,\ models
from tensorflow.keras.datasets import fashion_mnist
from tensorflow.keras.models import Sequential
from tensorflow.keras import layers
from tensorflow.keras.layers import Flatten, Dense
(train_images, train_labels), (test_images, test_labels) = fashion_mnist.load_data()
# Preprocess the data
train_images = train_images/ 255.0
test_images = test_images / 255.0
model = Sequential([
   Flatten(input_shape=(28, 28,1)),
   Dense(128, activation="relu"),
   Dense(128, activation="relu"),
   Dense(64, activation="relu"),
   Dense(10, activation="softmax")
])
class_names = ["T-shirt/top", "Trouser", "Pullover", "Dress", "Coat",
             "Sandal", "Shirt", "Sneaker", "Bag", "Ankle boot"]
model.compile(loss="sparse_categorical_crossentropy", optimizer="adam", metrics=["accuracy"])
history = model.fit(train_images, train_labels, epochs=1, validation_data=(test_images, test_labels))
loss,accuracy=model.evaluate(test_images,test_labels)
    for _ in range(3):
   index=np.random.randint(0,len(test_images))
   actual_label=test_labels[index]
   predicted label=np.argmax(model.predict(test images[index][np.newaxis,...,np.newaxis]))
   print(f'actual_label : {class_names[actual_label]} Predicted label :{class_names[predicted_label]}')
   plt.imshow(test_images[index],cmap='gray')
   plt.show()
```





1/1 [======] - 0s 34ms/step actual_label : Bag Predicted label :Bag

