```
print('Test Accuracy: {}'.format(test_accuracy))
```

Running the code will output the following:

```
Epoch: 0    - Cost: 11.0     Valid Accuracy: 0.204
Epoch: 1    - Cost: 9.95     Valid Accuracy: 0.229
Epoch: 2    - Cost: 9.18     Valid Accuracy: 0.246
Epoch: 3    - Cost: 8.59     Valid Accuracy: 0.264
Epoch: 4    - Cost: 8.13     Valid Accuracy: 0.283
Epoch: 5    - Cost: 7.77     Valid Accuracy: 0.301
Epoch: 6    - Cost: 7.47     Valid Accuracy: 0.316
Epoch: 7    - Cost: 7.2      Valid Accuracy: 0.328
Epoch: 8    - Cost: 6.96     Valid Accuracy: 0.342
Epoch: 9    - Cost: 6.73     Valid Accuracy: 0.36
Test Accuracy: 0.3801000118255615
```

Each epoch attempts to move to a lower cost, leading to better accuracy.

This model continues to improve accuracy up to Epoch 9. Let's increase the number of epochs to 100.

```
...
Epoch: 79   - Cost: 0.111    Valid Accuracy: 0.86
Epoch: 80   - Cost: 0.11     Valid Accuracy: 0.869
Epoch: 81   - Cost: 0.109    Valid Accuracy: 0.869
....
Epoch: 85   - Cost: 0.107    Valid Accuracy: 0.869
Epoch: 86   - Cost: 0.107    Valid Accuracy: 0.869
Epoch: 87   - Cost: 0.106    Valid Accuracy: 0.869
Epoch: 88   - Cost: 0.106    Valid Accuracy: 0.869
Epoch: 89   - Cost: 0.105    Valid Accuracy: 0.869
Epoch: 90   - Cost: 0.105    Valid Accuracy: 0.869
Epoch: 91   - Cost: 0.104    Valid Accuracy: 0.869
Epoch: 92   - Cost: 0.103    Valid Accuracy: 0.869
Epoch: 93   - Cost: 0.103    Valid Accuracy: 0.869
Epoch: 94   - Cost: 0.102    Valid Accuracy: 0.869
Epoch: 95   - Cost: 0.102    Valid Accuracy: 0.869
Epoch: 96   - Cost: 0.101    Valid Accuracy: 0.869
Epoch: 97   - Cost: 0.101    Valid Accuracy: 0.869
Epoch: 98   - Cost: 0.1      Valid Accuracy: 0.869
Epoch: 99   - Cost: 0.1      Valid Accuracy: 0.869
Test Accuracy: 0.8696000006198883
```