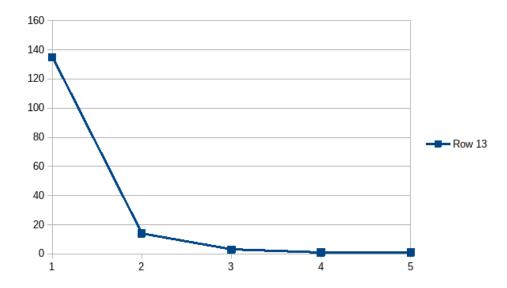
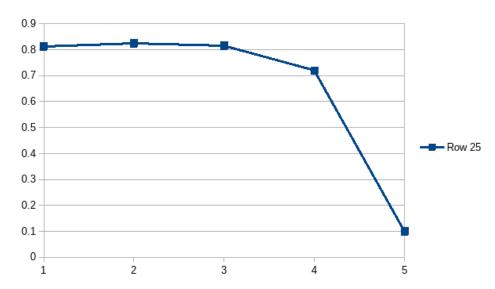
Lab 5

Training time:

Question 1: gradient = tape.gradient(loss, parameters) Question 2: 100480 = Neurons in first layer * (the flattened input shape + the line intercept/constant) = = 128 * (28 * 28 + 1)Question 3: Batch size 1 (Column 1): Test accuracy: 0.8181999921798706 Batch size 10 (Column 2): accuracy: 0.8450000286102295 Batch size 100 (Column 3): 600/600 [=============] - 3s 4ms/step - loss: 0.5263 - accuracy: 0.8159 accuracy: 0.8384000062942505 Batch size 1000 (Column 4): accuracy: 0.8176000118255615 Batch size 60000 (Column 5): [=========] - 1s 2ms/step - loss: 2.1806 - accuracy: 0.3012 Test accuracy: 0.3012000024318695



Accuracy:



Batch size 1000, gives the best accuracy for the time spent.