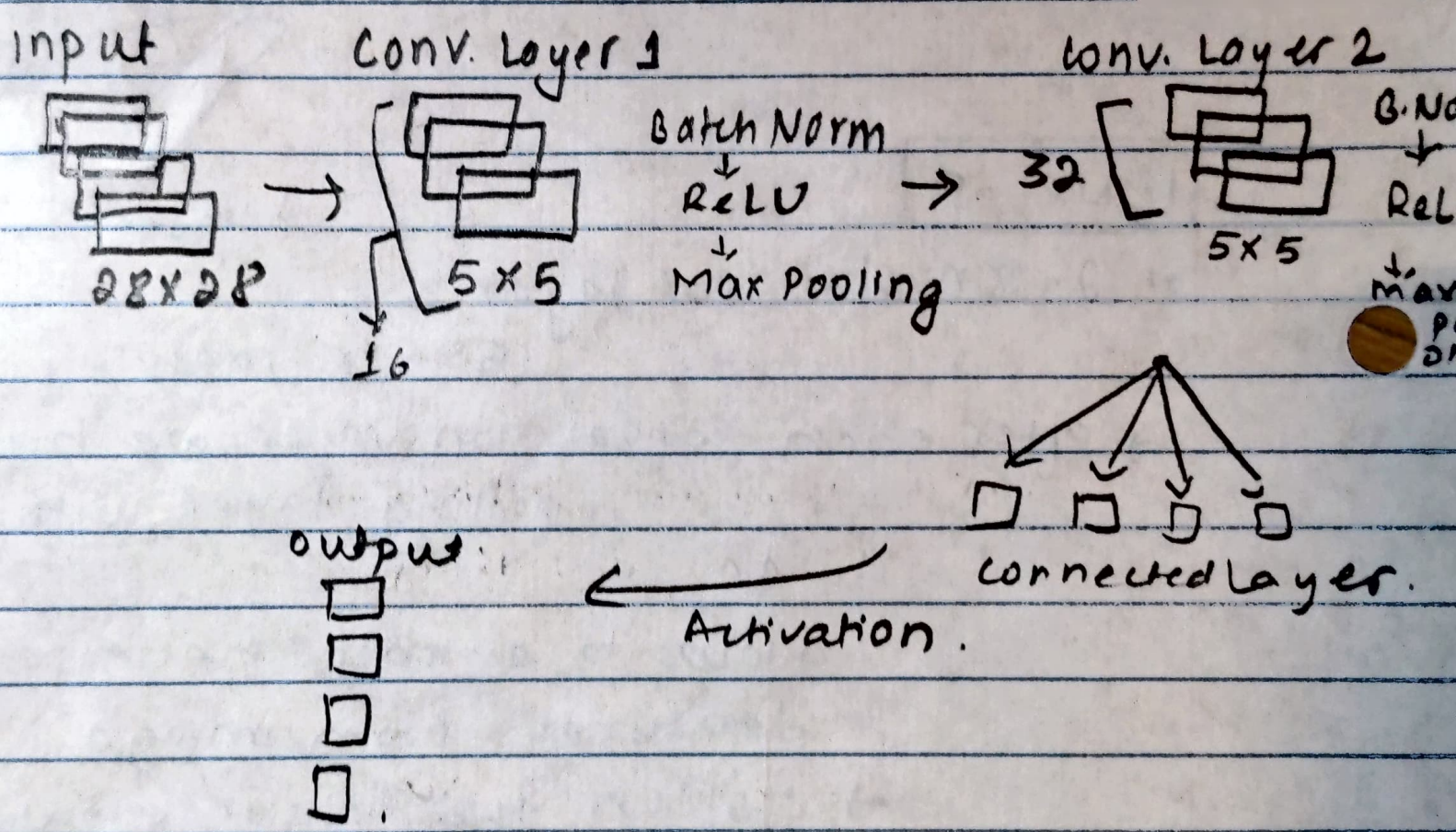
HW-4

CNN FashionMNIST dataset.



→ 2 convolutional Layer

→ 5x5 kernels, fully connected layer and final activation for output layer

- in constructor, we defined the layers using the provided modules from nn packages.

* a sequence of a layer normalization activation and pooling defined as a sequential.

* conv2d Python's predefined class as our convolutional layer.

- torch.nn class nn.Sequential.
- runs each modules contained within it. in a sequential manner.
  nn.Conv2d(in_channels, out_channels, kernel_size, padding, stride).

* after two convolution layer and activations
  ↓
  network with fully connected layer that outputs to 10 classes.

- forward function → passes input through different layers.
  → pass x through first layer
  → pass output through 2nd Layer
  → a pass that through fully connected layer to get output.