**Assignment 04**

**1. Can you think of a few applications for a sequence-to-sequence RNN? What about a sequence-to-vector RNN? And a vector-to-sequence RNN?**

**2. Why do people use encoder–decoder RNNs rather than plain sequence-to-sequence RNNs for automatic translation?**

**3. How could you combine a convolutional neural network with an RNN to classify videos?**

**4. What are the advantages of building an RNN using dynamic\_rnn() rather than static\_rnn()?**

**5. How can you deal with variable-length input sequences? What about variable-length output sequences?**

**6. What is a common way to distribute training and execution of a deep RNN across multiple GPUs?**