**Q1: what is static and dynamic network?**

**Ans:**

**Static network:**

* Static neural networks have a fixed layer architecture.
* a static computation graph.
* Static neural networks are ANNs that undergo a training or learning phase and then do not change when they are used.

**dynamic network:**

* dynamic neural networks, which learn constantly and may undergo structural changes after the initial training period.
* Dynamic layer architecture.

**Q2: what are concurrent inputs and sequential inputs?**

**Ans:**

**Q3: what is incremental and batch training?**

**Ans:**

**Incremental learning:**

* The aim of incremental learning is for the learning model to adapt to new data without forgetting its existing knowledge.
* This is a Machine Learning technique which training and learning steps is performed continuously over time and never ends.

**Batch training:**

* A training dataset can be divided into one or more batches. When all training samples are used to create one batch, the learning algorithm is called batch gradient descent.
* Another reason for why you should consider using batch is that when you train your deep learning model without splitting to batches, then your deep learning algorithm (may be a neural network) has to store errors values for all those 100000 images in the memory and this will cause a great decrease in speed of training.
* A batch size of 32 means that 32 samples from the training dataset will be used to estimate the error gradient.