Coursera IBM AI Workflow assignment

1. An API test is similar to a unit test with a setup (prepare data for calling the API method), a call to the API method and then checking of the results.
2. Yes

3. No

4. Unit testing is an essential instrument in the toolbox of any serious Software developer. However, it can sometimes be quite difficult to know how to write unit tests for a particular piece of code. Having difficulty testing their own or someone else's code, developers often think that their struggles are caused by a lack of some fundamental testing knowledge or secret unit testing techniques.

5. Performance monitoring involves the measurement of performance over time against indicators of performance or key performance indicators (KPIs).

6. Unit tests isolate and exercise specific *units* of your code. Okay. I'll concede that I just punted by defining a term with a word in the term. But the creators of the term left the designation deliberately vague, presumably to cross language boundaries.
In C#, you can think of a unit as a method. You thus write a unit test by writing something that tests a method. Oh, and it tests something specific about that method *in isolation*. Don't create something called TestAllTheThings and then proceed to call every method in a namespace.

7. The API offers two types of autocomplete widgets, which you can add via the Autocomplete and SearchBox classes respectively. In addition, you can use the AutocompleteService class to retrieve autocomplete results programmatically.

8. Data ingestion is the process of obtaining and importing data for immediate use or storage in a database. To ingest something is to take something in or absorb something.
Data can be streamed in real time or ingested in batches. In real-time data ingestion, each data item is imported as the source emits it. When data is ingested in batches, data items are imported in discrete chunks at periodic intervals of time. The first step in an effective data ingestion process is to prioritize the data sources. Individual files must be validated and data items routed to the correct destinations.

9. Yes

10. Yes

11. Yes

12. Yes