

Name: _____

PIC 16 Final Exam Part I - Track B – Section 1

In this exam option, you will write an Alexa skill called Word Helper that performs several functions, including providing a word of the day and synonyms for a user-specified word. You will *not* have to work with Amazon Web Services or the Amazon Developer Portal at all. Instead, you will write your interaction model by hand and you will locally (on your computer) develop the Python function that would be deployed on your cloud-based service. You will be able to test your cloud-based service code locally using example requests provided in `.json` files, and you will be able to test the validity of your responses using a provided function that simulates Alexa's interpretation of a response.

Your skill should provide responses for commands like the following:

Alexa, start Word Helper

Alexa, ask Word Helper for help

Alexa, ask Word Helper for a random word.

Alexa, tell Word Helper to give me the word of the day

Alexa, tell Word Helper to give me the word of the day for January 12, 2017

Alexa, ask Word Helper for a word that starts with "a" (from `nltk.corpus.words`)

Alexa, ask Word Helper for a five letter word that starts with "l" (from `nltk.corpus.words`)

Alexa, ask Word Helper for a synonym for "yell" (for words with synsets in `nltk.corpus.wordnet`)

First, you will write the components of your interaction model in a plain text file `Part IB1.txt`. When you are finished, you will submit `Part IB1.txt` to CCLE → Final Exam → Part IB1.

You may upload as many times as you want, but may only *submit* once.

1. Neatly write your intent schema in a file `Part IB1.txt`. Format – and especially indent – as shown in documentation examples. For credit, you should name your intents and any slots / slot types in a sensible way so that their purpose is obvious. If you are concerned that your names may not be self-explanatory, you may also annotate your intent schema with comments.
2. Below your intent schema, define each *custom* slot type named in your intent schema by providing a list of potential values. If the list of values would be too long, describe how you might generate the list. No special format is required; just clearly indicate the name of each custom slot with all the values.
3. Some or all of the commands at the top of this sheet should invoke custom intents. Below your custom slot definitions, provide sample utterances that (should be sufficient to) prepare Alexa to map each of those commands to the proper intent. Format as shown in documentation examples. Do not provide sample utterances for built-in intents.

Once you submit, raise your hand to show me or a TA. When we see (on your computer) that you have submitted, we will provide the remainder of the exam document. This will include a detailed description of the interaction model that you must assume (instead of your own) to develop your cloud-based service code.