

Handong Honor Code

- You are responsible for understanding and complying with Handong Honor Code.
- If you copy someone else's coding or homework assignments or use someone else's creative work without any indication, you will get an F grade. Anyone who shares the code with you will also get an F grade.

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Final Project

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1.1 Create a PRIVATE Repository

Create a **PRIVATE** repository in your GitHub and name it as `my-bible-app`. You must create a **PRIVATE** repository. If you create a public repository and store your Bible app code there, you will get a **F** grade. I'm emphasizing this again - it must be a **PRIVATE** repository, otherwise you will get a **F** grade.

Please see `supplementary.pdf` for more information.

1.2 Add a Collaborator

Follow the instructions below to add `hisplan` to your `my-bible-app` GitHub repository as a collaborator so that `hisplan` can check and evaluate your final project:

1. Open a browser and go to your `my-bible-app` GitHub repository.
2. Click `Settings` on the top right corner.
3. Click `Collaborators` on the menu.
4. Click `Add people` on the bottom.
5. Type `hisplan` in the textbox and click `Select a collaborator above`.

Once done, email me with the following information, then I will let you know if this part of the final project is completed or not:

- Your Full Name
- Your Student ID
- Your GitHub URL (e.g. `https://github.com/****`)

Please see `supplementary.pdf` for more information.

2 --

2.1 Complete the Code

You are provided with `Bible.py`, a module that has partially implemented some core functionalities of a Bible search app. Your job is to finish the module by completing the missing code.

There are six places with the following placeholders where you need to write code:

```
### YOUR CODE STARTS HERE
```

```
### YOUR CODE ENDS HERE
```

The detailed instructions can be found in the code. So, please make sure you read the entire code before you proceed. This way, you will also get a big picture.

In `Bible.py`, you will see Q1, Q2, Q3, Q4, Q5, and Q6. Q1 through Q5 are mandatory. Q6 is an extra credit (+10 points)

`Bible.py` implements a class named `Bible` using Object Oriented Programming (OOP), so it has a constructor, methods and attributes. You should have a general understanding of OOP that we covered in the class in order to work with this code.

`Bible.py` has many `assert` statements that check whether you implement the code correctly or not. If any of these `assert` statements throw an exception, that means you did something wrong in the code, thus you should find the problems and fix them.

Note that `Bible.py` is a module, thus even if you did everything correctly, running `Bible.py` will not display anything on the screen. Instead, you are provided with three testing code. By running any of these testing code, you will know whether you implemented `Bible.py` correctly or not.

- `test_search.py`
 - This will successfully run only when you complete Q1 through Q5 correctly.
- `test_max_chapter_verse.py`
 - This will successfully run only when you complete Q1 through Q5 correctly.
- `test_search_by_keyword.py`
 - This will successfully run only when you complete Q6 correctly (extra credit).

Please see `supplementary.pdf` for more information.

2.2 Create a Streamlit Web App

You are provided with `Bible_app.py` (a skeleton code). Your job is to implement the Bible search app using Streamlit and the `Bible.py` module that you have already completed in Section 2.1 .

In `supplementary.pdf` , you will find a screenshot of an example Bible search app that was demonstrated during class. Your app doesn't have to look like this. You can design the app however you want, but at minimum, the app should have UI elements (e.g. textbox, dropdown box) that allow users to search for a specific Bible verse by selecting a book name, chapter number, and verse number.

Make sure your name appear somewhere in the app.

2.3 Push Your Code to the Repository

Push your final code to the Github repository `my-bible-app` . The following is the list of files to be added to the GitHub repository:

Act.txt	Hag.txt	Lam.txt	Rom.txt
Amo.txt	Heb.txt	Lev.txt	Rut.txt
Ch1.txt	Hos.txt	Luk.txt	Sa1.txt
Ch2.txt	Isa.txt	Mal.txt	Sa2.txt
Col.txt	Jam.txt	Mar.txt	Sol.txt
Co2.txt	Jde.txt	Mat.txt	Th1.txt
Col.txt	Jdg.txt	Mic.txt	Th2.txt
Dan.txt	Jer.txt	Nah.txt	Ti1.txt
Deu.txt	Jo1.txt	Neh.txt	Ti2.txt
Ecc.txt	Jo2.txt	Num.txt	Tit.txt
Eph.txt	Jo3.txt	Oba.txt	Zac.txt
Est.txt	Job.txt	Pel.txt	Zep.txt
Exo.txt	Joe.txt	Pe2.txt	bible-3letter.txt
Eze.txt	Joh.txt	Phi.txt	bible-fullname.txt
Ezr.txt	Jon.txt	Plm.txt	max_chapter_info.txt
Gal.txt	Jos.txt	Pro.txt	max_verse_info.txt
Gen.txt	Kg1.txt	Psa.txt	Bible.py
Hab.txt	Kg2.txt	Rev.txt	Bible_app.py

2.4 Configure Streamlit Cloud

Configure Streamlit Cloud so that your Bible search app can be served to the public. Once done, include the web address of your Bible search app in the file named `site.txt` . For example,

```
http://***.streamlit.app
```

where `***` could be any name you chooose.

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Another extra credit (+10 points): create a Tkinter-based Bible search app called `Bible_tkinter_app.py` .