

```

except sr.RequestError as e:
    print("Could not request results from Google Speech Recognition
          service; {0}".format(e))

tts(speech_text)

main()

```

This program performs the same function as the “Repeat What I Say” program you created earlier, but it has a much more modular, cleaner approach. You can easily add more features when you have new ideas, without having to touch existing code.

Let’s study the changes that have been made in the `main.py` file as compared to what you had earlier. Notice that a new package named `yaml` has been imported. You have also imported the `tts` function so that it can be used in the main file.

This is used to parse the `profile.yaml` file you created in Chapter 1. You open the YAML file and use the `yaml.safe_load()` function to load data from the file and save it to `profile_data`. You then close the file you opened. You can retrieve the data in the form of `profile_data['name']` and assign it to appropriate variables for use in the future.

You then call the `tts` function imported from `GreyMatter.SenseCells.tts` to include a welcome note for the user. If the user has customized the configuration in the `profile.yaml` file, it uses their name in the welcome note. The entire STT is placed in a function called `main`, and that function is called at the end of the code. This completes your construction of two out of three components of the virtual assistant.

Version-Controlling Your Source Code

Because you have finished building all the necessary components for this chapter, let’s version-control your source code. Start by initializing an empty Git repository by entering the following command:

```
$ git init
```

Now, check the status of the added/modified files, add the files, and commit them:

```

$ git status
$ git add --all
$ git commit -m "Add STT and TTS functionality"

```

You can view all the previous commit messages by entering the following command in the terminal:

```
$ git log --pretty=oneline
```

You have successfully committed the first version of changes into your local Git repository. You can also push your changes if you have a repository for this purpose on GitHub. If not, you can create an empty repository at GitHub, and it will give you the directions to upload your local Git repository.