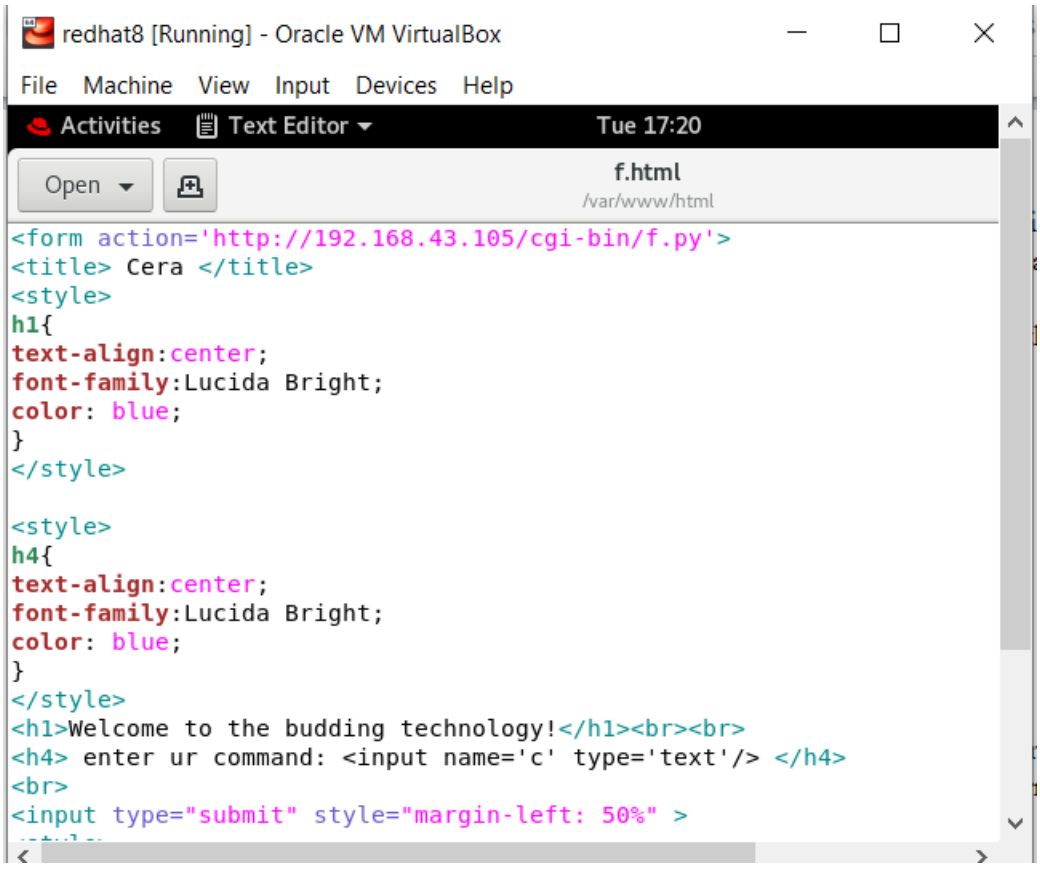
Voice Assistant

This is a module of my major project where I am making a voice assistant quite similar to Alexa but for computing purposes. The major motive of this module was to test some important libraries of python like os, pyttsx3, webbrowser, and speech recognition.

```
import os
import pyttsx3
import webbrowser
import speech_recognition as sr
```

Currently this module is capable of showing date and calendar too apart from opening chrome and text editor. The date and calendar are opened using the Linux command. A separate code was written on RedHat Linux to read the commands and run it on the browser. The layout of the webpage was written using HTML in the html directory, whereas the code to read the command and run it was written in the cgi-bin



redhat8 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Text Editor Tue 17:22

Open f.py /var/www/cgi-bin

```
#!/usr/bin/python3
print("content-type:text/html")
print()

import cgi
import subprocess

form=cgi.FieldStorage()
cmd=form.getvalue("c")

output=subprocess.getoutput(cmd)
print(output)
```

Currently, when you run this program, “Cearaa” will greet you and ask you to enter your choice. You can tell your assistant if you want to see the date, calendar, or browse the internet or use the notepad.

This module has turned out to work fine. Next step is to use docker in it to make it launch multiple operating system. After adding the features, final step will be to add NLP and other ML techniques to make it a real voice assistant. I have attached a clip in the document.