Before deploying the code into Debian machine and make it executable,the following
are needed:

1- make sure that python (2.7 as an example) is installed, if not installed then
hit the following commands in a Terminal (admin access)
  • sudo apt-get update

  • sudo apt-get install -y python

2-make sure that git (if used as version control system) is installed, if not
installed then hit the following command in a Terminal:

  • sudo apt-get install -y git

git will be used to pull my filesfrom github as an example

3- create a folder (as an example var/www/test) and pull my files to it

4- change the directory to var/www/test

5- hit in terminal: python test_with_timerThread.py "url_file2". This script run
the required steps and repeat it every 5 minutes(the user should replace
"url_file2" with the file name he has). The other file
"test_without_timerThread.py" has no timer thread, and in order to run it every 5
minutes, crontab concept can be used. In this case, testcron.cron cron file must be
used. It contains the command to run python script every 5 minutes in the
background of debian linux machine the */5 * * * * python var/www/test/
test_without_timerThread.py "url_file2". This command should be adapted to refer to
the path of python script file and to the plain text file. To run the crontab file
just hit in terminal: crontab test.cron

However, if it is meant that the Debian machine will run the code via http url from
a web server (Apache server as an example), in this case Python CGI can be used,
this needs some more configurations:

1- make sure that python (2.7 as an example) is installed, if not installed then
hit the following commands in a Terminal (admin access)
  • sudo apt-get update

  • sudo apt-get install -y python

2- make sure that Apache server is installed in the debian machine, if not
installed then hit the following commands:

  • sudo apt-get update

  • sudo apt-get install apache2

3- now the configuartion of Apache server must be configured to make it able to
handle CGI. Please refer to (https://httpd.apache.org/docs/2.4/howto/cgi.html)

4- make sure that git (if used as version control system) is installed, if not installed then hit the following command in a Terminal:

- sudo apt-get install -y git

git will be used to pull the my code from github as an example

5- create a folder (as an example var/www/test) and pull my app to it

6- then by hitting http://localhost/var/www/test_with_timer_thread.py in the web browser, the py code will run. If the argument must be passed to the py CGI code, then this reference (https://mail.python.org/pipermail/tutor/2002-September/017255.html) can be used to adapt the code and the url accordingly