LETTERKENNY INSTITUTE OF TECHNOLOGY

ASSIGNMENT COVER SHEET

Lecturer’s Name:

Assessment Title:

Work to be submitted to:

Date for submission of work:

Place and time for submitting work: Blackboard via TurnItIn by

To be completed by the Student

Student’s Name:

Student Number:

Class:

SubjectModule:

Word Count (where applicable):

I confirm that the work submitted has been produced solely through my own efforts.

Student’s signature: Date:

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| --- |
| **Notes**  **Penalties:** The total marks available for an assessment is reduced by 15% for work submitted up to one week late. The total marks available are reduced by 30% for work up to two weeks late. Assessment work received more than two weeks late will receive a mark of zero. [Incidents of alleged plagiarism and cheating are dealt with in accordance with the Institute’s Assessment Regulations.]  **Plagiarism:** Presenting the ideas etc. of someone else without proper acknowledgement (see section L1 paragraph 8).  **Cheating:** The use of unauthorised material in a test, exam etc., unauthorised access to test matter, unauthorised collusion, dishonest behaviour in respect of assessments, and deliberate plagiarism (see section L1 paragraph 8).  **Continuous Assessment:** For students repeating an examination, marks awarded for continuous assessment, shall normally be carried forward from the original examination to the repeat examination. |

**Conclusion**

To conclude, in this project I have used VMware workstation and I have created ubuntu virtual machine in it (Ubuntu 20.04.3 LTS) and will be running it on my physical windows 10. Although I’m very familiar in windows I have chosen ubuntu for this project as I think it’s more straightforward and less complicated than windows. There were some issues during the installation of apache2 in the first question on ubuntu virtual machine, when I was trying to use systemctl status command I was getting error and there was a little bit of confusion as I have just recently started using ubuntu and it turned out that the port 80 was not listening and as it shows in figure3 I have solved the issue also figure5 shows the webpage of the apche2 I have created for question 1. For the 2nd question , I have used beautifulsoup4 for parsing the apache2 I have created which it shows in the screenshot of (figure 7) with this IP address <http://192.168.196.128/> . and it shows in the screenshot I took during the process that there were no issues also the The code for page scraping is running perfectly well and without any issues.

When I was writing the code for question 3, I had issues paramiko, although paramiko was installed into my system and I had no issues importing the first time but every time I close the project and reopen it and I try to run the code, I was keep getting an error saying no such file or directory, normally you can counter this kind of issues when you are using relative path but I was not, I was using the full path but somehow when I changed the file name it worked again and I had no issues with it after that as it’s shown in the screenshot that the code is running well. For question 4 I did import socket module to establish data and then I did provide the IPv4 address which I have created earlier for the apache2 and then I did choose few ports which I will be scanning in a python code and print out ports that are open and as it’s shown the screenshot in figure 2 in question 4, the script is running well.

After writing scripts for the all the questions concerned and I made sure they all are running well, I did code inspection for all of them and there were a lot of weak warning for question 3 and question 4 where question 1 only had one week warning but normally the scripts are running well. In this project I was instructed to push all the scripts to github which I did.

There are two links that I have pushed into github, the first one is the screenshots I took during the creation of this project and the second one is python code or scripts. These are the two links down below.

<https://github.com/Mukhtaaar/OOPRCA2> :

<https://github.com/Mukhtaaar/ooprtest/tree/master/OOPR%20assignment> : for code