Learning Report – Portfolio

GLOBAL ENGINEERING ACADEMY

Genesis

L&T Technology Services

Document History

Ver. Rel. No.	Release Date	Prepared. By	Reviewed By	Approved By	Remarks/Revision Details
1	31/01/2021	Prathviraj (99003123)			
2					
3					

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Course 1: SDLC

SDLC Mini Project:

In this course we made learning report of the mini project which we made in Step-in. The project consists of developing and implementing a Medical store management system that will automate all the process in a medical store. The developed system will reduce manual work that is required for keeping all the records of sellers and the customers. The system can able to provide any no. of repetitions and keep the record of the total customers.

This can also generate the bill for the customers.

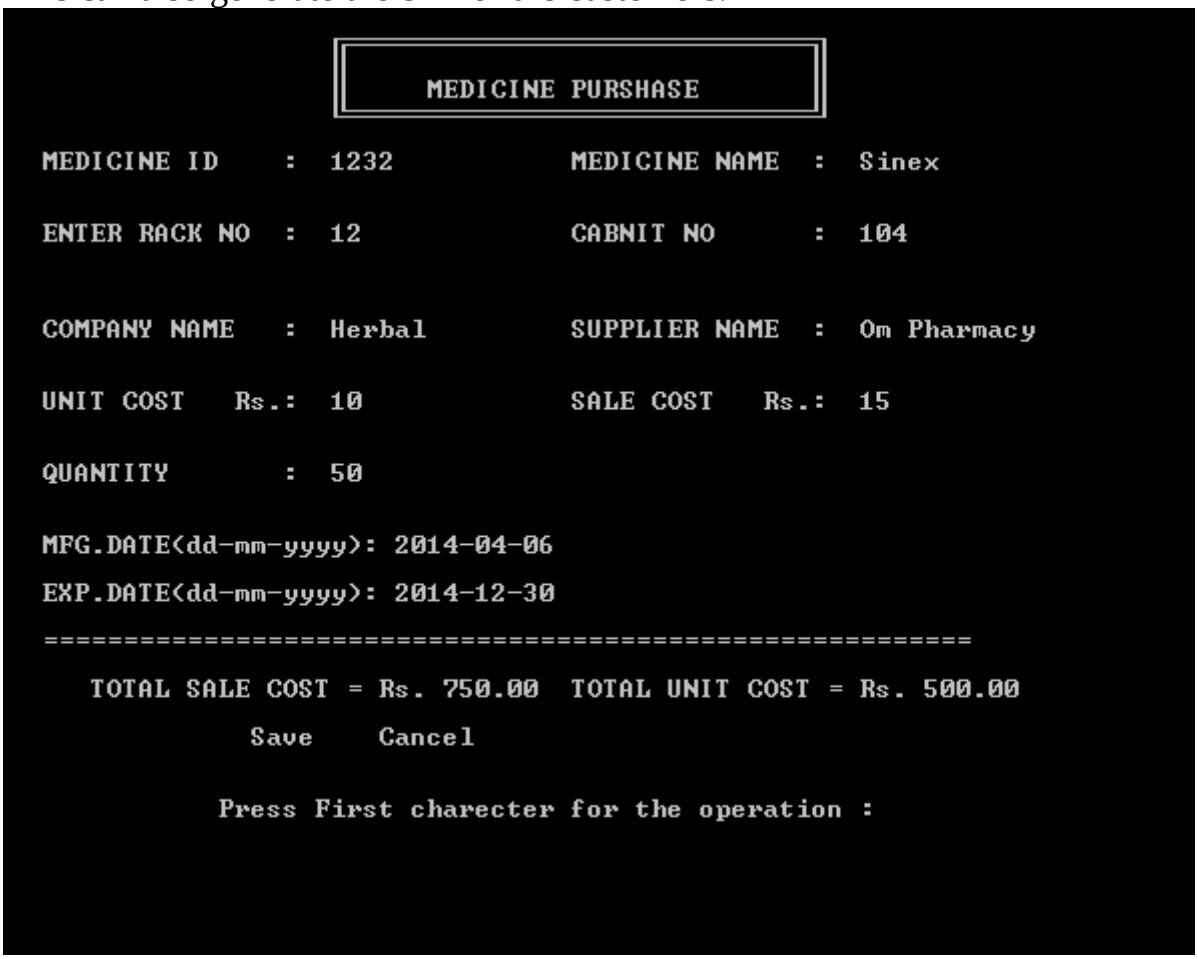

Figure 1: Medical store Management

CI/CD workflows for Project

Medical Store Management System

Course 2: Core Java

Online Examination Mini Project:

This project is a mini exam conducting program which contains of 10 multiple choice question and options which concludes with the user shown the results as per the options selected.

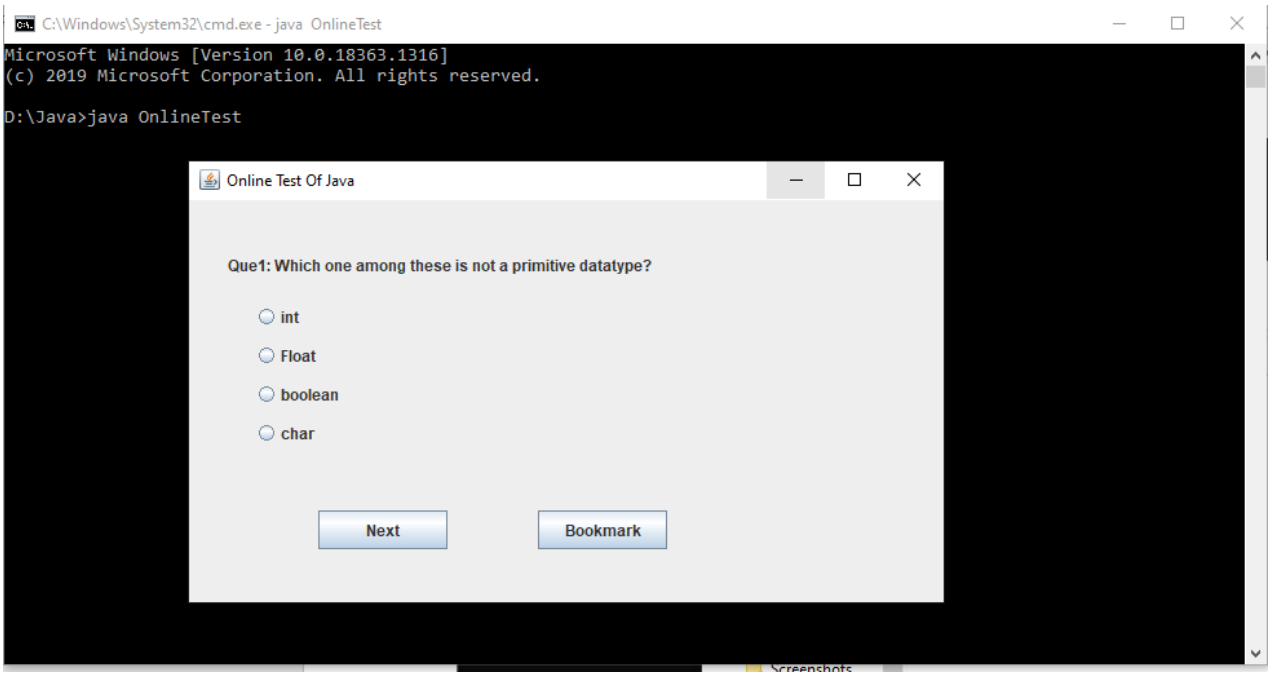

Figure 2: Online Test

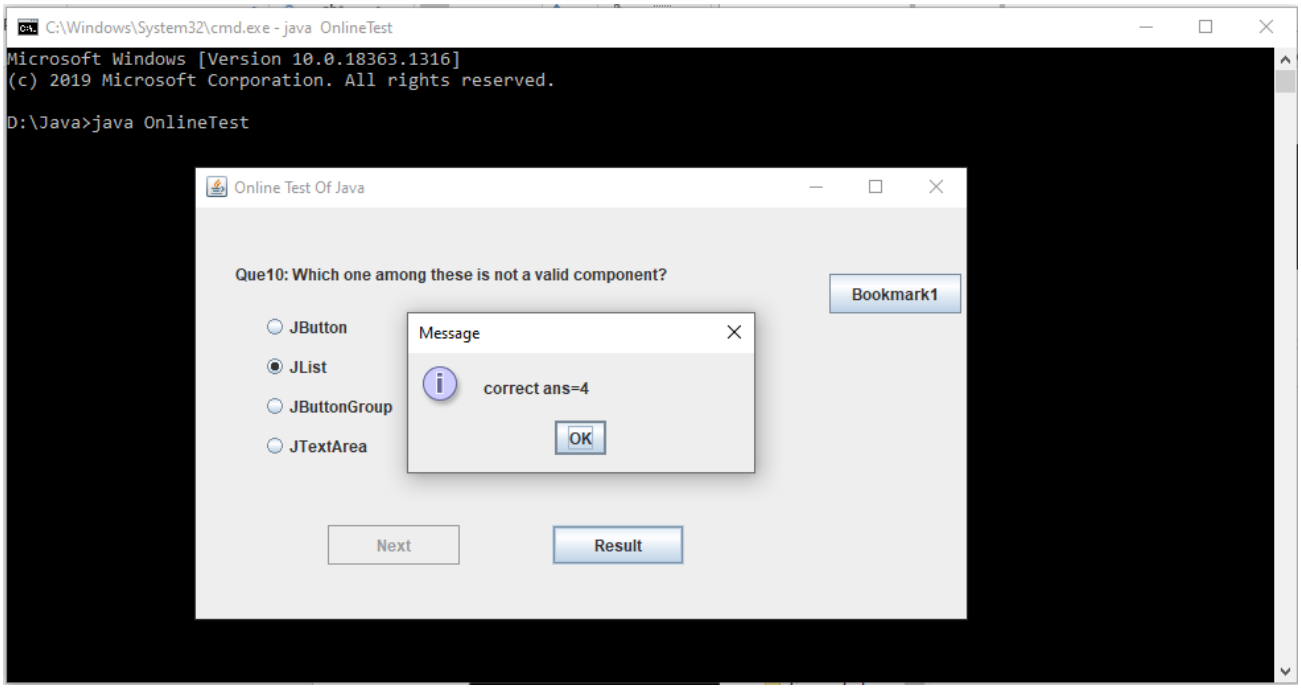

Figure 3: Test Result

GitHub Link:

Online Test

Course 3: Advanced Python

Rock Paper Scissor Game:

Here I have used List to select any of rock paper or scissors.

The computer uses the random value for list and selects winner if the Paper covers Rock or Rock smashes scissors or Scissors tears the paper. It will give the output as Tie if the both selects the same otherwise It displays that I lost the game.

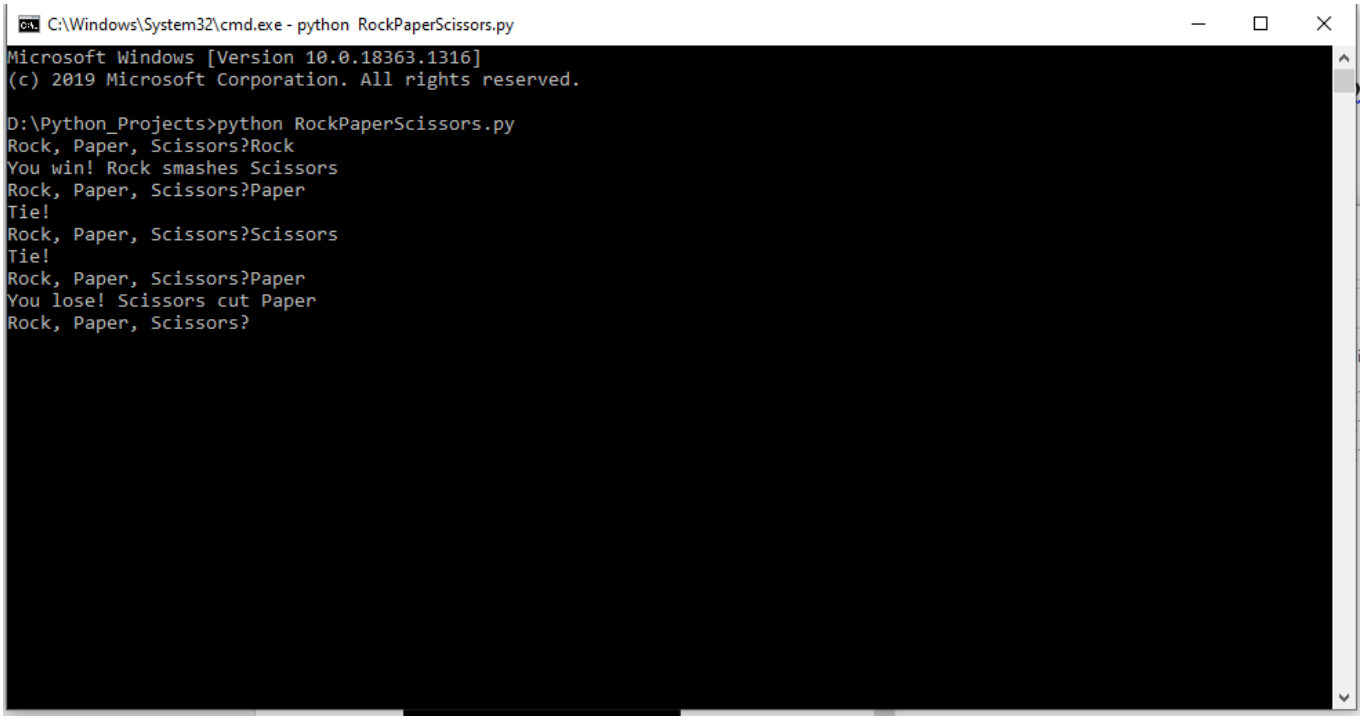

Figure 4: Rock Paper Scissors

GitHub Link:

Rock Paper Scissor

Course 4: Data Analytics

Analysis of Complaints in New York Police Department:

Here in this I tried to perform different operations with roughly 3 lac records in csv format.

How much better we can understand the data using pandas, numpy & matplotlib. Below are the screenshots of the plot.

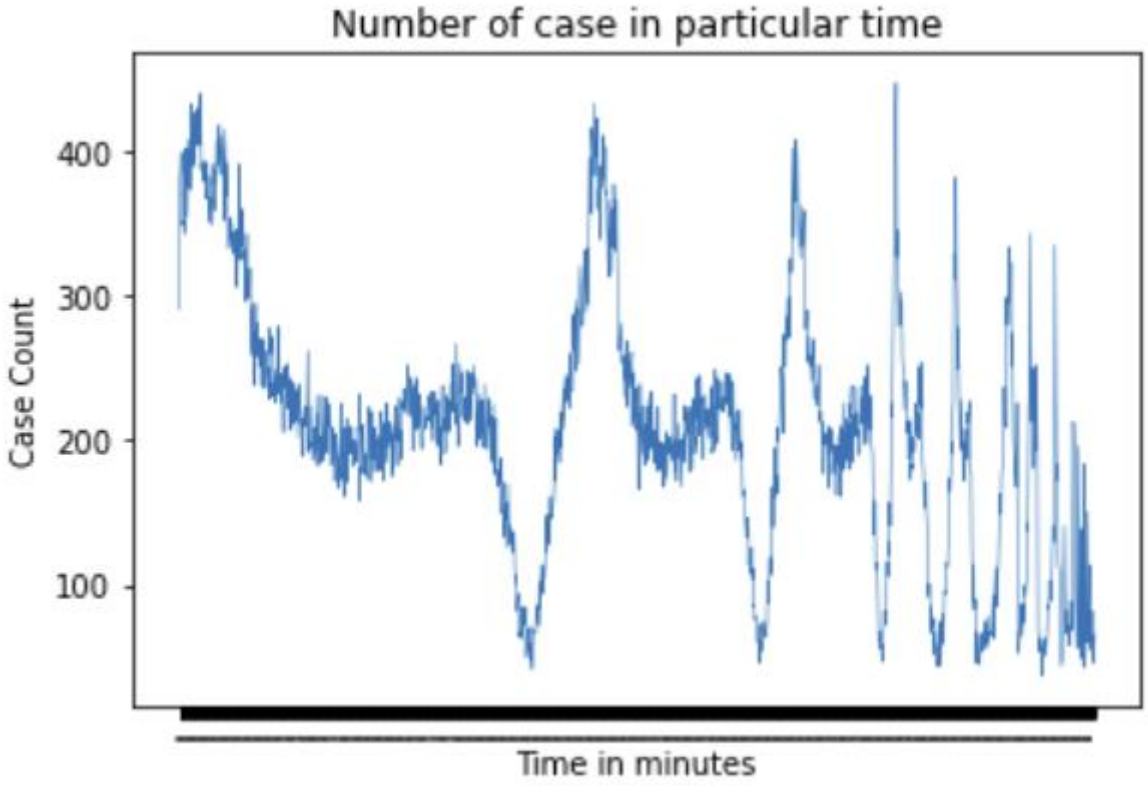

Figure 5: Cases in Particular time

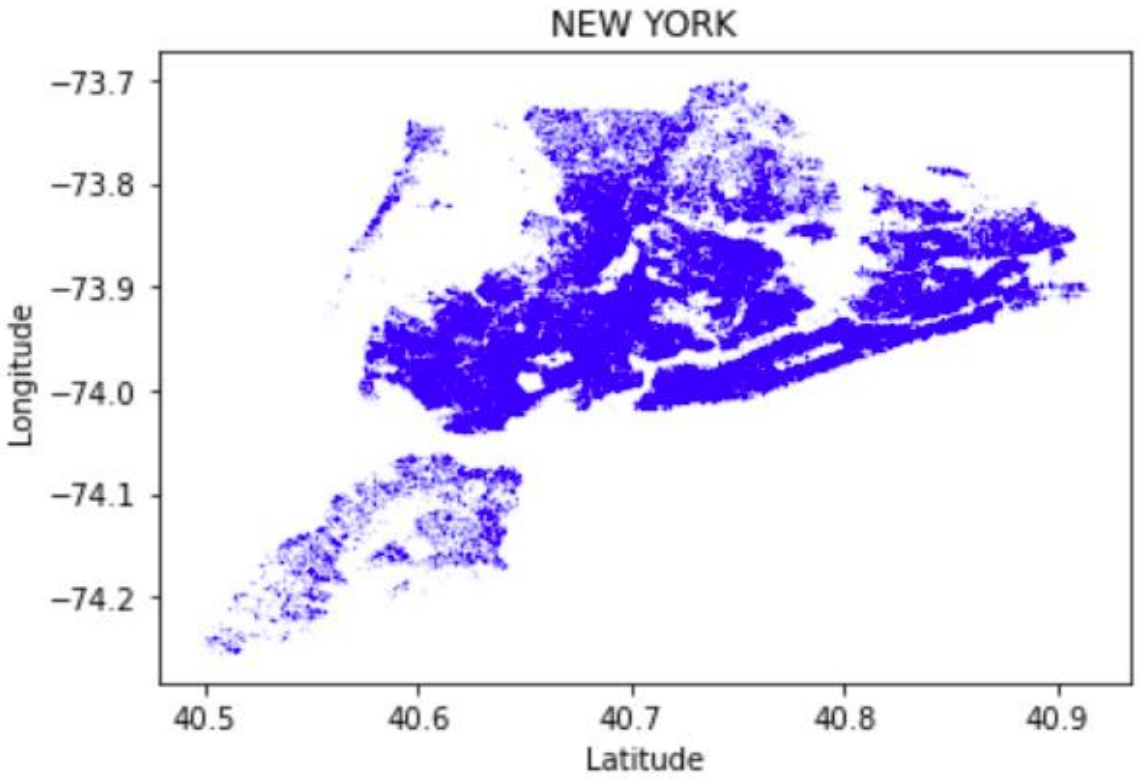

Figure 6: Crime rate Map

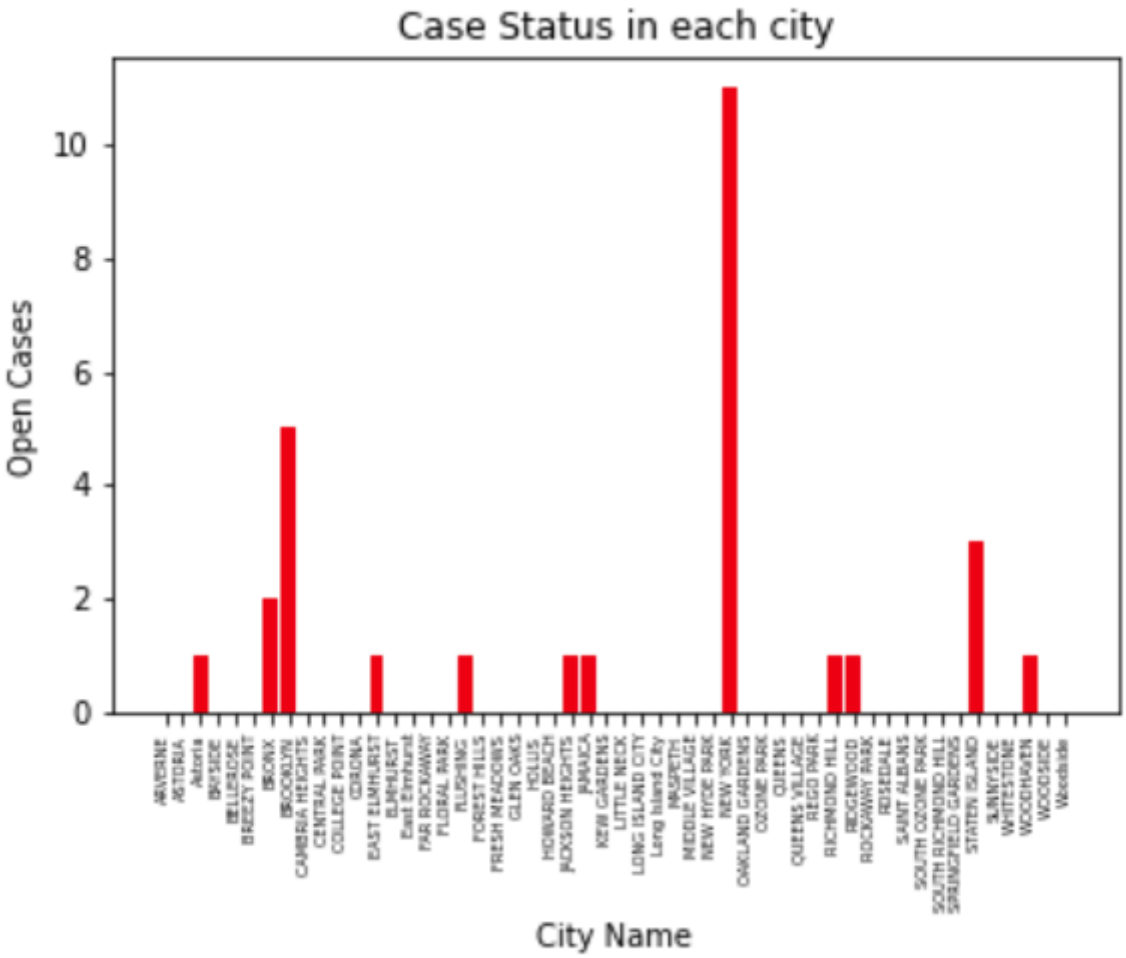

Figure 7: Case status in each city

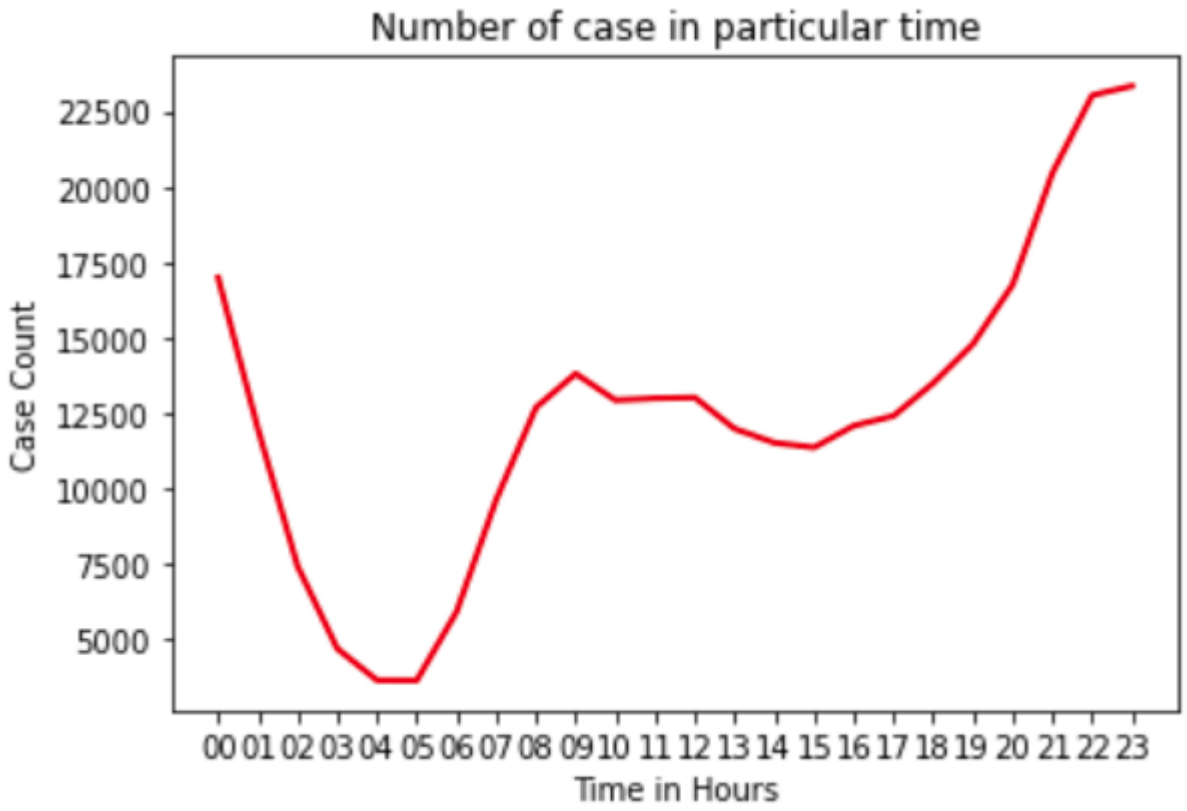

Figure 8: Cases in particular time

Figure 9: Case Status

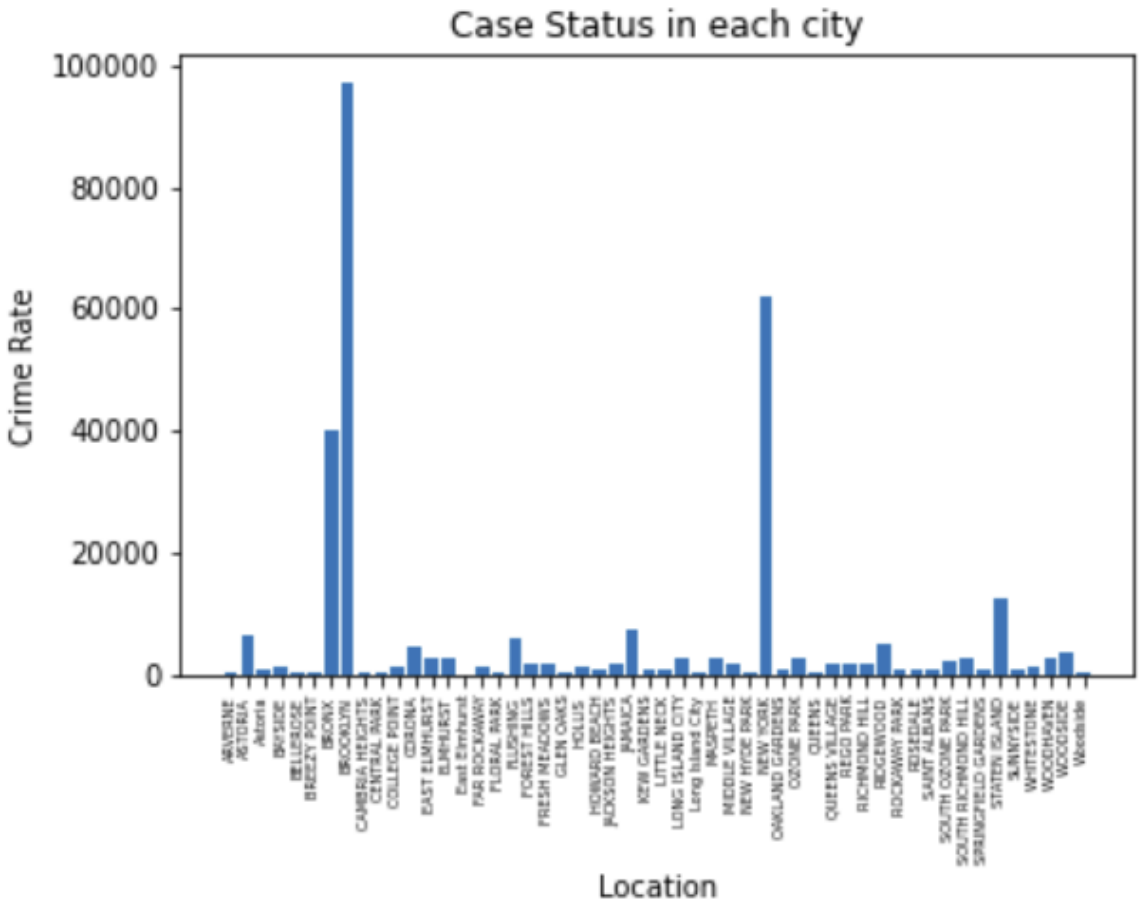

Figure 10: Case status in each city

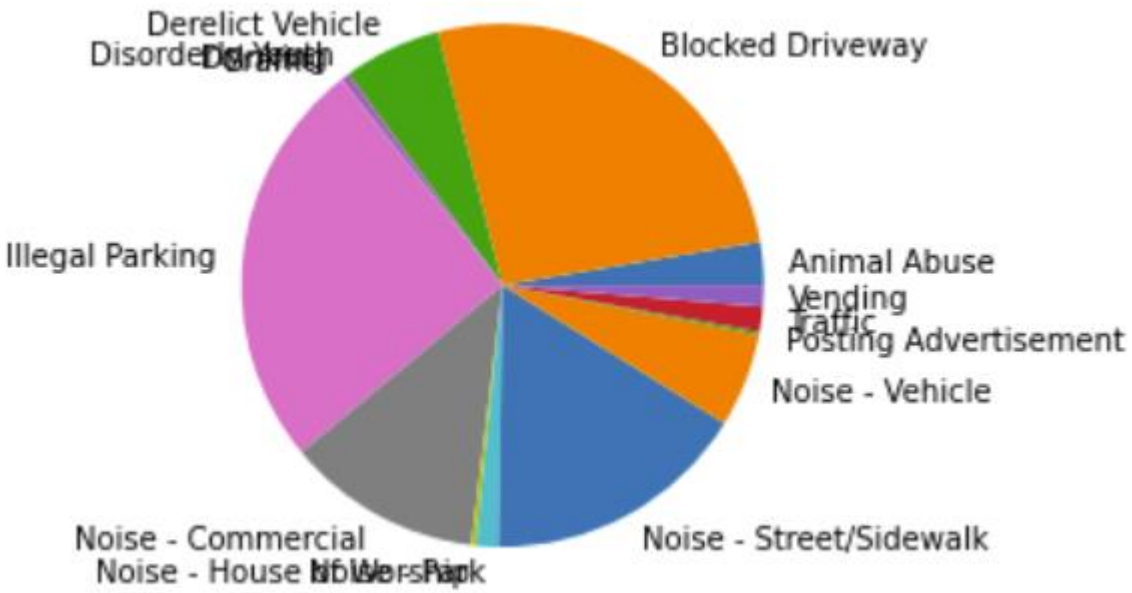

Figure 11: Types of cases

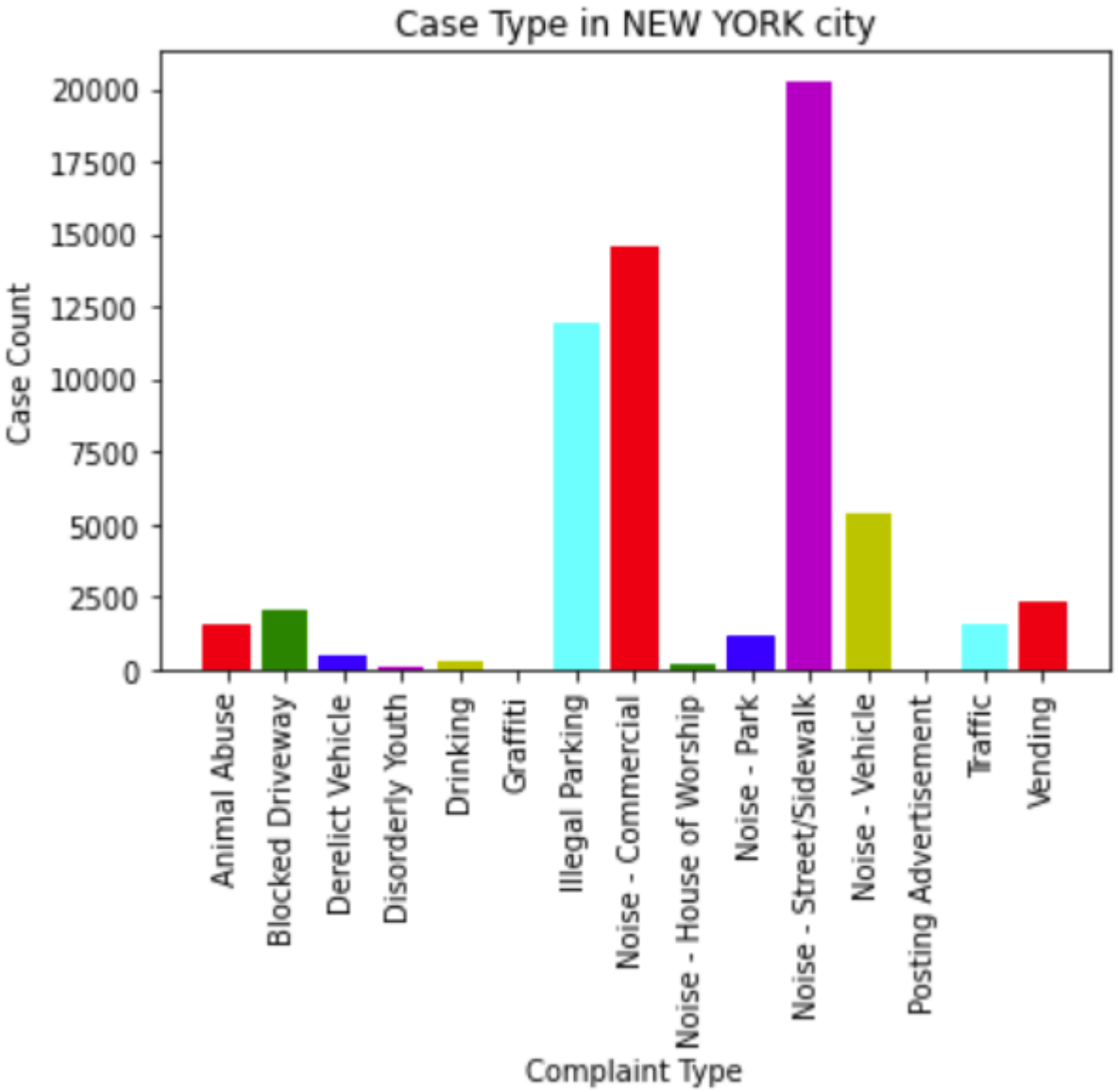

Figure 12: Types of cases in New York City

GitHub link:

DataAnalytics_With_Python

Course 5: TDLC

Basic Calculator Project with Test Cases:

In this first we made the test cases and then we had written the code. Below is the screenshot of the output.

```
./all.out
make: execvp: ./all.out: Permission denied
make: *** [Makefile:14: run] Error 127
sanket@sanket:~/Downloads/calculator-main/3_Implementation$ make
gcc *.c Unity/unity.c  calc.h -IUnity  -o all.out
sanket@sanket:~/Downloads/calculator-main/3_Implementation$ ./all.out
test.c:73:sum:PASS
test.c:74:sum1:PASS
test.c:75:sum2:PASS
test.c:76:subtract:PASS
test.c:77:subtract1:PASS
test.c:78:multi:PASS
test.c:79:div:PASS
test.c:80:sq:PASS
test.c:81:sq1:PASS
test.c:82:cu:PASS
test.c:83:cu1:PASS
test.c:84:cube_rt:PASS
test.c:85:sq_rt:PASS

-----------------------
13 Tests 0 Failures 0 Ignored
OK
sanket@sanket:~/Downloads/calculator-main/3_Implementation$
```

Figure 13; Test Cases For Calculator

GitHub Link:

Calculator

Course 6: Robot Framework

1. Selenium:

In this I had made testcases for KOHLS website in which one fails and other pass. Below is the screenshot of the test cases.

```
Command: C:\python\python.exe -m robot.run --listener C:\Users\CTEA\AppData\Local\Temp\RobotTempDir17478739480335971078\TestRunnerAgent.py:59414 --argumentf
Suite Executor: Robot Framework 3.2.2 (Python 3.7.9 on win32)
==============================================================================
RoyalCaribbean MiniProject 99003133
==============================================================================
RoyalCaribbean MiniProject 99003133.TestCases
==============================================================================
RoyalCaribbean MiniProject 99003133.TestCases.Login suite
==============================================================================
TC1_validcredential                                          C:\robotic_framework\robot_workspace\RoyalCaribbean_MiniProject_99003133\driver
February 2nd, 2021 - April 3rd, 2021
April 10th, 2021 - April 16th, 2022
| FAIL |
Does not meet my requirements
------------------------------------------------------------------------------
RoyalCaribbean MiniProject 99003133.TestCases.Login suite            | FAIL |
1 critical test, 0 passed, 1 failed
1 test total, 0 passed, 1 failed
==============================================================================
RoyalCaribbean MiniProject 99003133.TestCases                        | FAIL |
1 critical test, 0 passed, 1 failed
1 test total, 0 passed, 1 failed
==============================================================================
RoyalCaribbean MiniProject 99003133                                  | FAIL |
1 critical test, 0 passed, 1 failed
1 test total, 0 passed, 1 failed
```

Figure 14: TC 1

```
Console  PyUnit
<terminated> Test_case_2.robot [Robot] C:\python\python.exe (Terminated 30-Jan-2021, 10:47:08 am)
==============================================================================
RoyalCaribbean MiniProject 99003133
==============================================================================
RoyalCaribbean MiniProject 99003133.TestCases
==============================================================================
RoyalCaribbean MiniProject 99003133.TestCases.Test case 2
==============================================================================
TC1_validcredential                                          C:\robotic_framework\robot_workspace\RoyalCaribbean_MiniProject_99003133\driver
| PASS |
------------------------------------------------------------------------------
RoyalCaribbean MiniProject 99003133.TestCases.Test case 2            | PASS |
1 critical test, 1 passed, 0 failed
1 test total, 1 passed, 0 failed
==============================================================================
RoyalCaribbean MiniProject 99003133.TestCases                        | PASS |
1 critical test, 1 passed, 0 failed
1 test total, 1 passed, 0 failed
==============================================================================
RoyalCaribbean MiniProject 99003133                                  | PASS |
1 critical test, 1 passed, 0 failed
1 test total, 1 passed, 0 failed
==============================================================================
Output:  C:\robotic_framework\robot_workspace\RoyalCaribbean_MiniProject_99003133\output.xml
Log:     C:\robotic_framework\robot_workspace\RoyalCaribbean_MiniProject_99003133\log.html
Report:  C:\robotic_framework\robot_workspace\RoyalCaribbean_MiniProject_99003133\report.html
```

Figure 15: TC 2

Github Link:

Sellenium

2. Appium:

In Appium I had tested Carinfo app by adding some details of the car to the console. Below is the screenshot of the test case.

```
<terminated> Flipkart.robot (Selected Test Cases) [Robot] C:\python\python.exe (Terminated 30-Jan-2021, 11:09:00 am)
Command: C:\python\python.exe -m robot.run --listener C:\Users\CTEA\AppData\Local\Temp\RobotTempDir174787394803
Suite Executor: Robot Framework 3.2.2 (Python 3.7.9 on win32)
==============================================================================
Flipkart App
==============================================================================
Flipkart App.NativeAppSuite
==============================================================================
Flipkart App.NativeAppSuite.Flipkart
==============================================================================
TC1_Verify_Invalid_login                                              | PASS |
------------------------------------------------------------------------------
Flipkart App.NativeAppSuite.Flipkart                                  | PASS |
1 critical test, 1 passed, 0 failed
1 test total, 1 passed, 0 failed
==============================================================================
Flipkart App.NativeAppSuite                                           | PASS |
1 critical test, 1 passed, 0 failed
1 test total, 1 passed, 0 failed
==============================================================================
Flipkart App                                                          | PASS |
1 critical test, 1 passed, 0 failed
1 test total, 1 passed, 0 failed
==============================================================================
Output:  C:\robotic framework\robot workspace\Flipkart App\output.xml
Log:     C:\robotic framework\robot workspace\Flipkart App\log.html
Report:  C:\robotic framework\robot workspace\Flipkart App\report.html
```

Figure 16: Appium TC 1

GitHub Link:

CarInfo

Course 7: Networking

1. Cisco Packet Tracer:

In this software we had configure 1 router with Pc & 2 routers with Pc and tried to ping all of them. Below is the screenshot of the same.

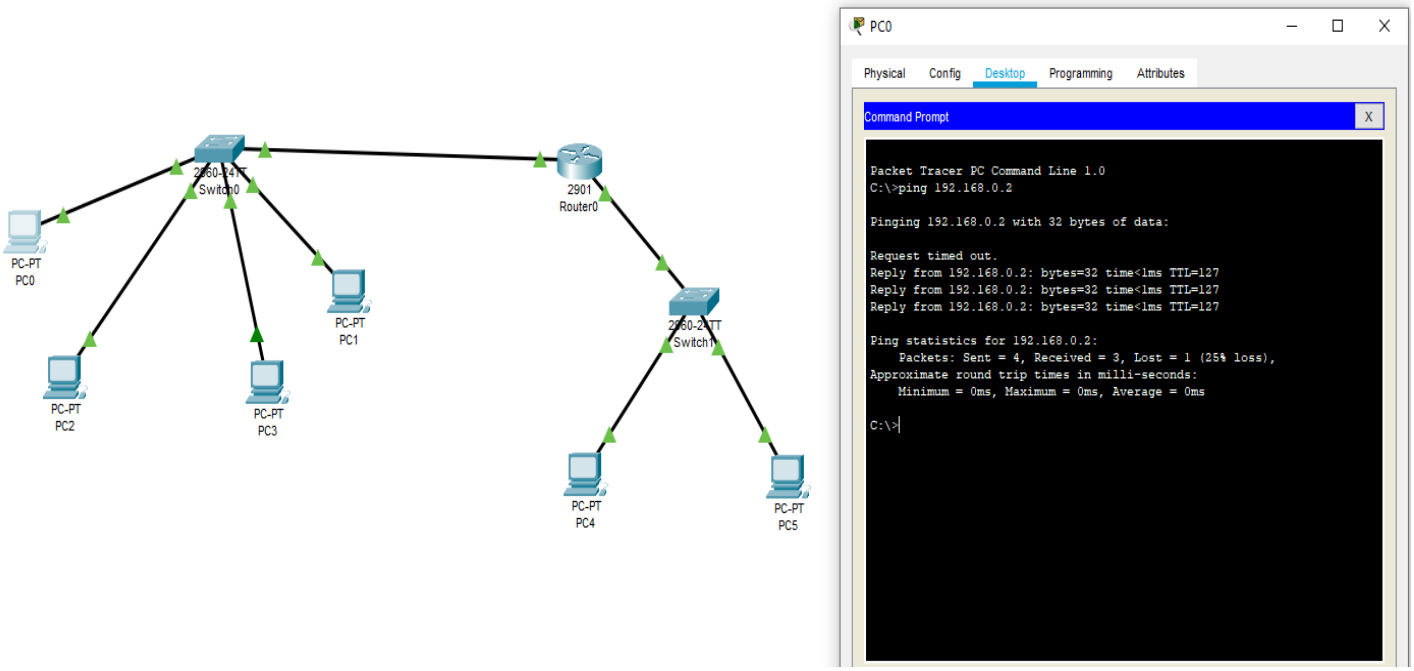

Figure 17: 1 Router Configuration

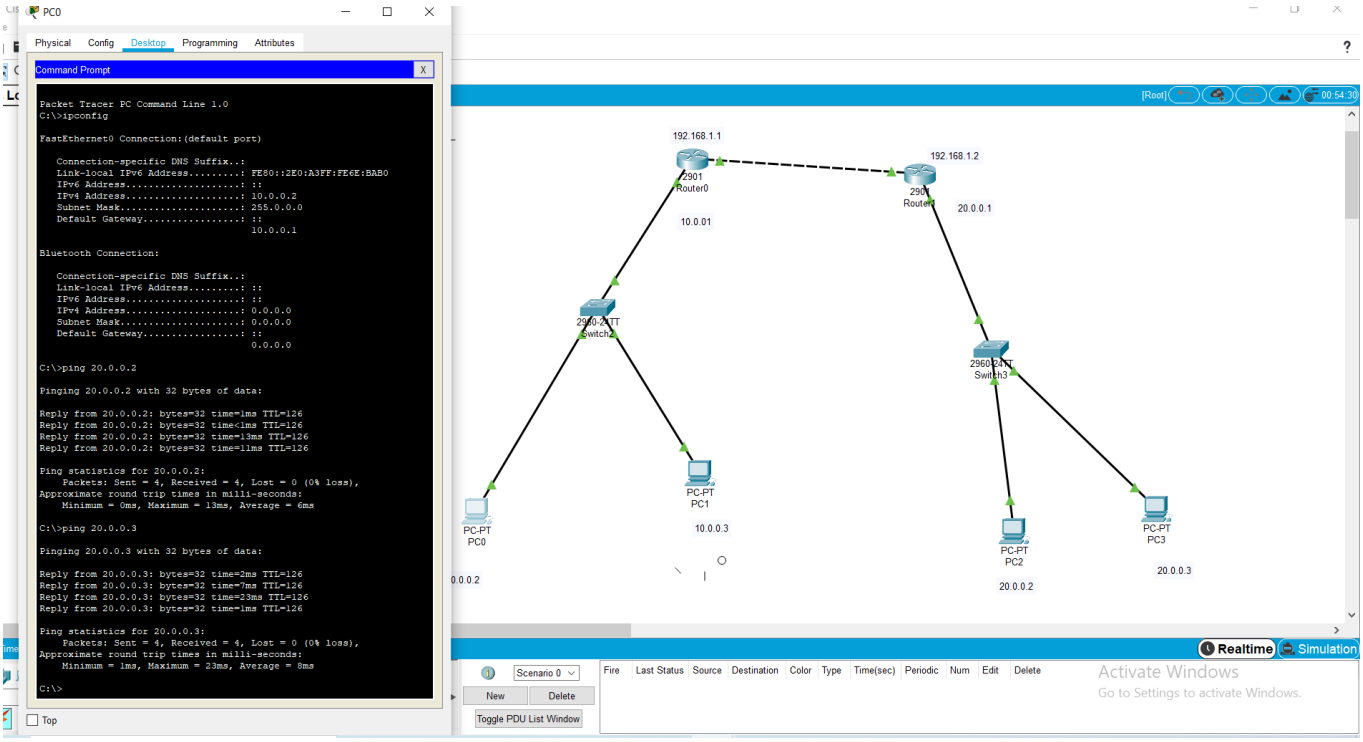

Figure 18: 2 Router Configuration

2. Wire Shark:

Here we had ping www.google.com and seen how it's happening at back end.

402	18.925761	8.8.8.8	192.168.90.155	DNS	90 Standard query response 0x4f49 A www.google.com A 142.250.67.68
403	18.935195	8.8.8.8	192.168.90.155	DNS	90 Standard query response 0x4f49 A www.google.com A 142.250.67.68
404	18.935309	192.168.90.155	8.8.8.8	ICMP	118 Destination unreachable (Port unreachable)
405	18.955896	192.168.90.155	142.250.67.68	ICMP	74 Echo (ping) request id=0x0001, seq=1/256, ttl=128 (reply in 406)
406	18.979250	142.250.67.68	192.168.90.155	ICMP	74 Echo (ping) reply id=0x0001, seq=1/256, ttl=118 (request in 405)
407	19.961134	192.168.90.155	142.250.67.68	ICMP	74 Echo (ping) request id=0x0001, seq=2/512, ttl=128 (reply in 408)
408	19.984505	142.250.67.68	192.168.90.155	ICMP	74 Echo (ping) reply id=0x0001, seq=2/512, ttl=118 (request in 407)
409	20.472812	192.168.90.155	52.109.60.16	TLSv1.2	83 Application Data
410	20.485981	52.109.60.16	192.168.90.155	TLSv1.2	79 Application Data

Figure 19: Wire Shark