

Project Report

By: IMT2019051

Aim: There is a host who conducts the Gameshow. There will be 3 participants for a game show, some random questions were asked by the host. The participant who first presses the buzzer within 10 seconds after the question announcement is allowed to answer the question. +1 mark is awarded for a correct answer and 0.5 marks will be deducted for a wrong answer. If any participant scores 5 points the game ends and the winner is declared.

Language used:

Python 3

Key concepts:

Socket Programming.

Future Extensions:

- 1) can be modified to infinite clients.
- 2) High level graphics GUI can be added.

Assumptions:

- 1) If a player presses the buzzer, he should answer the question.
- 2) There is no 10 seconds time constraint after the buzzer is pressed.

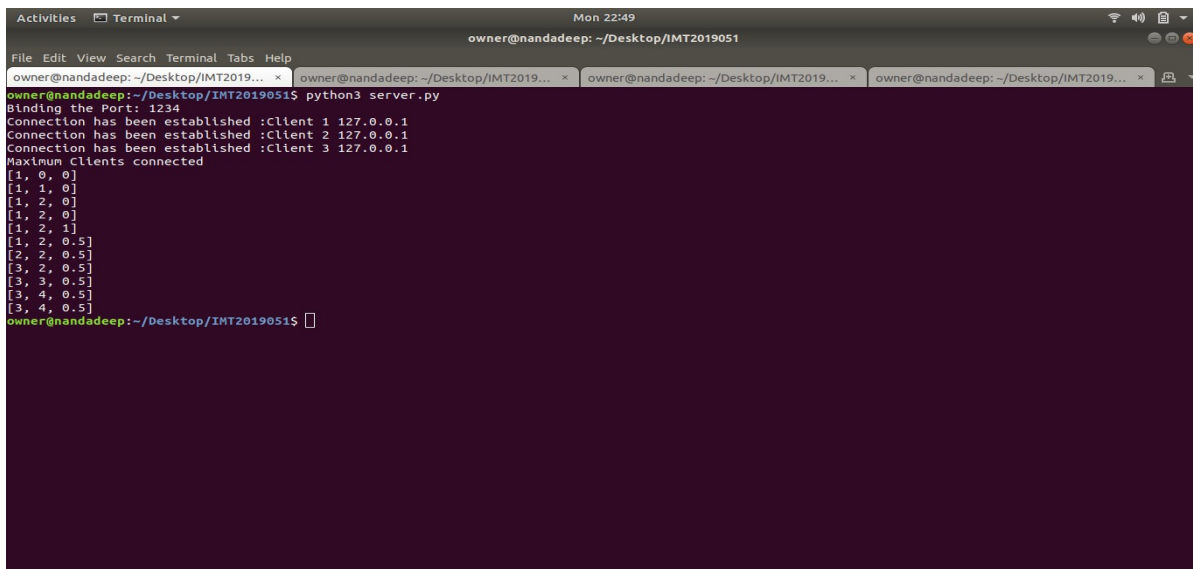
3) IP address and Port Numbers are hard coded to 127.0.0.1 and 1234 for sake of simplicity.

How to run:

1) type \$ **python3 server.py** and \$ **python3 client.py** to run the server and client.

2) type **y** as buzzer.

Working of the program:



```
Activities Terminal Mon 22:49
owner@nandadeep: ~/Desktop/IMT2019051
owner@nandadeep:~/Desktop/IMT2019051$ python3 server.py
Binding the Port: 1234
Connection has been established :Client 1 127.0.0.1
Connection has been established :Client 2 127.0.0.1
Connection has been established :Client 3 127.0.0.1
Maximum clients connected
[1, 0, 0]
[1, 1, 0]
[1, 2, 0]
[1, 2, 0]
[1, 2, 1]
[1, 2, 0.5]
[2, 2, 0.5]
[3, 2, 0.5]
[3, 3, 0.5]
[3, 4, 0.5]
[3, 4, 0.5]
owner@nandadeep:~/Desktop/IMT2019051$
```

```
Activities Terminal Mon 22:49
owner@nandadeep: ~/Desktop/IMT2019051

File Edit View Search Terminal Tabs Help
owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x
owner@nandadeep:~/Desktop/IMT2019051$ python3 client.py

Welcome to the Game Show!!

INSTRUCTIONS:
There will be 3 players participating.
Marking scheme: +1 for a right answer, -0.5 for a wrong answer.
Type yes or y or YES or Y as buzzer.
If no one pressed the buzzer a new question will be appeared.
The first player to get 5 points is the winner.

You are Player : 1
1+8: Do You Know this question?
y
Answer the Question
9
Correct Answer, You get 1 Point
1+5: Do You Know this question?
Sorry, Player 2 has pressed the buzzer.
1+16: Do You Know this question?
Sorry, Player 2 has pressed the buzzer.
1+7: Do You Know this question?
Nobody pressed the buzzer.Moving on to the next question
1+15: Do You Know this question?
Sorry, Player 3 has pressed the buzzer.
1+22: Do You Know this question?
Sorry, Player 3 has pressed the buzzer.
1+24: Do You Know this question?
y
Answer the Question
25
Correct Answer, You get 1 Point
1+25: Do You Know this question?
y
Answer the Question
26
Correct Answer, You get 1 Point
```

```
Activities Terminal Mon 22:50
owner@nandadeep: ~/Desktop/IMT2019051

File Edit View Search Terminal Tabs Help
owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x
owner@nandadeep:~/Desktop/IMT2019051$ python3 client.py

INSTRUCTIONS:
There will be 3 players participating.
Marking scheme: +1 for a right answer, -0.5 for a wrong answer.
Type yes or y or YES or Y as buzzer.
If no one pressed the buzzer a new question will be appeared.
The first player to get 5 points is the winner.

You are Player : 3
1+8: Do You Know this question?
Sorry, Player 1 has pressed the buzzer.
1+5: Do You Know this question?
Sorry, Player 2 has pressed the buzzer.
1+16: Do You Know this question?
Sorry, Player 2 has pressed the buzzer.
1+7: Do You Know this question?
Nobody pressed the buzzer.Moving on to the next question
1+15: Do You Know this question?
y
Answer the Question
16
Correct Answer, You get 1 Point
1+22: Do You Know this question?
y
Answer the Question
21
Wrong Answer, You get -0.5 Points
1+24: Do You Know this question?
Sorry, Player 1 has pressed the buzzer.
1+25: Do You Know this question?
Sorry, Player 1 has pressed the buzzer.
1+21: Do You Know this question?
Sorry, Player 2 has pressed the buzzer.
1+6: Do You Know this question?
Sorry, Player 2 has pressed the buzzer.
1+17: Do You Know this question?
Nobody pressed the buzzer.Moving on to the next question
```

```
Activities Terminal Mon 22:50
owner@nandadeep: ~/Desktop/IMT2019051
File Edit View Search Terminal Tabs Help
owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x owner@nandadeep: ~/Desktop/IMT2019... x
1+16: Do You Know this question?
y
Answer the Question
17
Correct Answer, You get 1 Point
1+7: Do You Know this question?
Nobody pressed the buzzer.Moving on to the next question
1+15: Do You Know this question?
Sorry, Player 3 has pressed the buzzer.
1+22: Do You Know this question?
Sorry, Player 3 has pressed the buzzer.
1+24: Do You Know this question?
Sorry, Player 1 has pressed the buzzer.
1+25: Do You Know this question?
Sorry, Player 1 has pressed the buzzer.
1+21: Do You Know this question?
y
Answer the Question
22
Correct Answer, You get 1 Point
1+6: Do You Know this question?
y
Answer the Question
7
Correct Answer, You get 1 Point
1+17: Do You Know this question?
Nobody pressed the buzzer.Moving on to the next question
1+2: Do You Know this question?
y
Answer the Question
3
Correct Answer, You get 1 Point
Congrats You Mon!!!
Winner Winner Chicken Dinner!!!
owner@nandadeep:~/Desktop/IMT2019051$
```

References:

- 1) <https://www.geeksforgeeks.org/simple-chat-room-using-python/>
- 2) <https://github.com/>
- 3) <https://docs.python.org/3/howto/sockets.html>