

# Project Report

## ABOUT:

This quiz game show is built using python3. The game will be started when 3 players join the server. Every player receives a question (same question) and the one who knows the answer can press the buzzer. The one who presses the buzzer first gets the opportunity to answer. If no one knows the answer the buzzer waits for 10 seconds and moves to the next question. The person who pressed the buzzer is given 10 seconds to answer the question or else it is considered as an incorrect answer. Each correct answer gets +1 points and each incorrect answer gets -0.5 points. The one who reaches to 5 points quick, is declared as the winner and the leaderboard is displayed ending the game.

## INSTRUCTIONS:

- Open the server using 'python3 server.py' command.
- Open three different terminals and run the three client programs using 'python3 client.py' command.
- Start the quiz by entering your name.
- After entering your name, press 'Y' if you are ready.
- After all the players are ready, everyone will receive the question at the same time.
- To press the buzzer, enter 'b'. If someone has pressed the buzzer before you, you will not get the chance to answer.
- If you haven't pressed the buzzer but some other player has, you have to wait until that other player to answer the question.
- If no one has pressed the buzzer the server will display the answer to the question and moves to the next question.
- After the completion of each question, every client has to press 'Y' if they are ready. Only if all the players are ready everyone will receive the next question.

## REFERENCES:

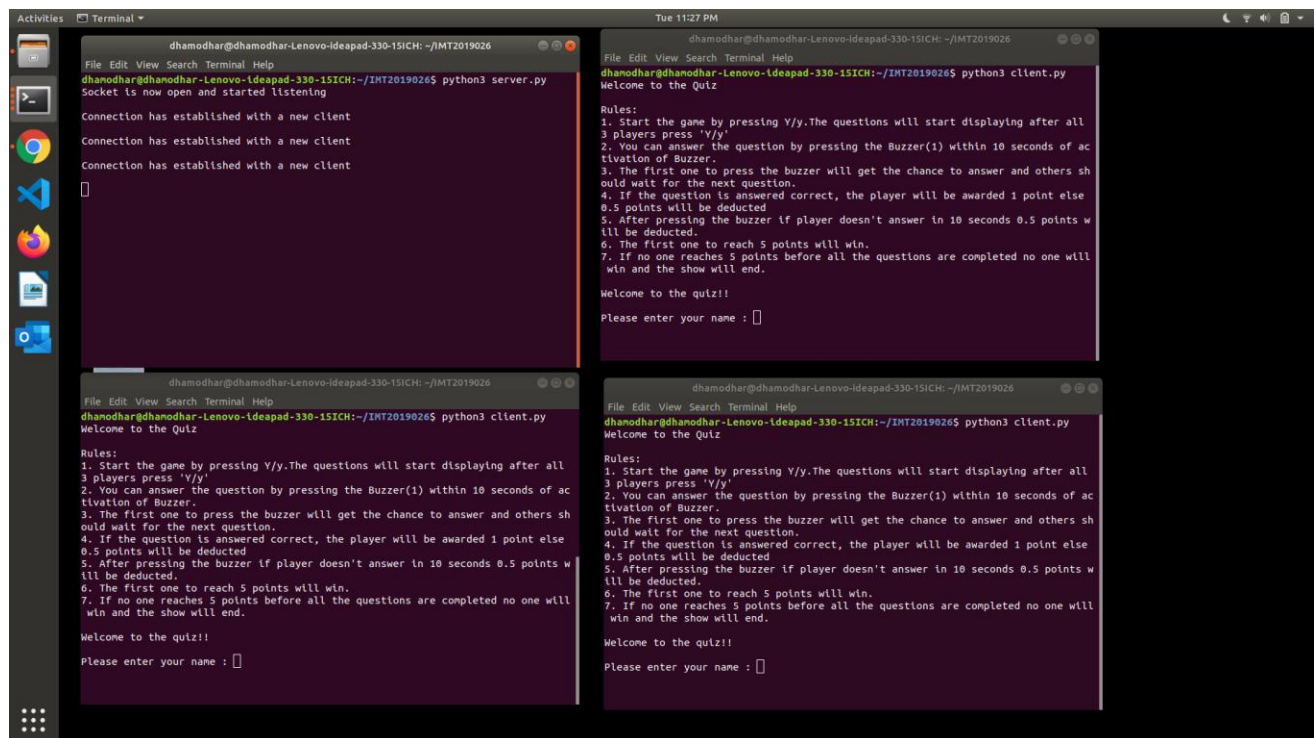
- <https://docs.python.org/3/howto/sockets.html>
- <https://www.youtube.com/watch?v=6jteAOmdsYg&list=PLhTjy8cBISerYuLZUvVOYsR1giva2payF>

There are no external dependencies to import before running the program.

## ASSUMPTIONS:

- If all the questions in the database are completed, then we declare the game to be a tie.

## Demo Pictures



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Activities Terminal Tue 11:28 PM
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File Edit View Search Terminal Help
dhamodhar@dhamodhar-Lenovo-Ideapad-330-15ICH:~/IMT2019026$ python3 server.py
Socket is now open and started listening
Connection has established with a new client
Connection has established with a new client
Connection has established with a new client
Waiting for A to be ready to receive question number 1
Waiting for B to be ready to receive question number 1
Waiting for C to be ready to receive question number 1
A is ready to receive question number 1
B is ready to receive question number 1
C is ready to receive question number 1
Question Number 1 has been sent to all the clients
[]

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tivation of Buzzer.
3. The first one to press the buzzer will get the chance to answer and others sh
ould wait for the next question.
4. If the question is answered correct, the player will be awarded 1 point else
0.5 points will be deducted
5. After pressing the buzzer if player doesn't answer in 10 seconds 0.5 points w
ill be deducted.
6. The first one to reach 5 points will win.
7. If no one reaches 5 points before all the questions are completed no one will
win and the show will end.
Welcome to the quiz!!
Please enter your name : A
Hello A!, To start the quiz, press 'Y' : y
Please wait for other players to press 'y'
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
[]

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3 players press 'Y/y'
2. You can answer the question by pressing the Buzzer(1) within 10 seconds of ac
tivation of Buzzer.
3. The first one to press the buzzer will get the chance to answer and others sh
ould wait for the next question.
4. If the question is answered correct, the player will be awarded 1 point else
0.5 points will be deducted
5. After pressing the buzzer if player doesn't answer in 10 seconds 0.5 points w
ill be deducted.
6. The first one to reach 5 points will win.
7. If no one reaches 5 points before all the questions are completed no one will
win and the show will end.
Welcome to the quiz!!
Please enter your name : C
Hello C!, To start the quiz, press 'Y' : y
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
[]
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File Edit View Search Terminal Help
Connection has established with a new client
Connection has established with a new client
Connection has established with a new client
Waiting for A to be ready to receive question number 1
Waiting for B to be ready to receive question number 1
Waiting for C to be ready to receive question number 1
A is ready to receive question number 1
B is ready to receive question number 1
C is ready to receive question number 1
Question Number 1 has been sent to all the clients
C has pressed the buzzer
[]

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ill be deducted.
6. The first one to reach 5 points will win.
7. If no one reaches 5 points before all the questions are completed no one will
win and the show will end.
Welcome to the quiz!!
Please enter your name : B
Hello B!, To start the quiz, press 'Y' : y
Please wait for other players to press 'y'
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
[]

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4. If the question is answered correct, the player will be awarded 1 point else
0.5 points will be deducted
5. After pressing the buzzer if player doesn't answer in 10 seconds 0.5 points w
ill be deducted.
6. The first one to reach 5 points will win.
7. If no one reaches 5 points before all the questions are completed no one will
win and the show will end.
Welcome to the quiz!!
Please enter your name : C
Hello C!, To start the quiz, press 'Y' : y
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
b
You have pressed the buzzer
You have 10 seconds to answer the question. Go on!
[]
```

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Activities Terminal
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File Edit View Search Terminal Help
Waiting for B to be ready to receive question number 1
Waiting for C to be ready to receive question number 1
A is ready to receive question number 1
B is ready to receive question number 1
C is ready to receive question number 1
Question Number 1 has been sent to all the clients
C has pressed the buzzer
C has given the right answer after pressing the buzzer
Waiting for C to be ready to receive question number 2
Waiting for A to be ready to receive question number 2
Waiting for B to be ready to receive question number 2
[]

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I'll be deducted.
6. The first one to reach 5 points will win.
7. If no one reaches 5 points before all the questions are completed no one will win and the show will end.

Welcome to the quiz!!
Please enter your name : B
Hello B!, To start the quiz, press 'Y' : y
Please wait for other players to press 'y'
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
To move to Q.No2, press 'Y' : []

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I'll be deducted.
6. The first one to reach 5 points will win.
7. If no one reaches 5 points before all the questions are completed no one will win and the show will end.

Welcome to the quiz!!
Please enter your name : A
Hello A!, To start the quiz, press 'Y' : y
Please wait for other players to press 'y'
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
To move to Q.No2, press 'Y' : []

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win and the show will end.

Welcome to the quiz!!
Please enter your name : C
Hello C!, To start the quiz, press 'Y' : y
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
b
You have pressed the buzzer
You have 10 seconds to answer the question. Go on!
96
Your answer is correct
Your current score is : 1
To move to Q.No2, press 'Y' : []
```

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File Edit View Search Terminal Help
Waiting for C to be ready to receive question number 2
Waiting for A to be ready to receive question number 2
Waiting for B to be ready to receive question number 2
A is ready to receive question number 2
B is ready to receive question number 2
C is ready to receive question number 2
Question Number 2 has been sent to all the clients
No one has pressed the buzzer in the given time
Waiting for B to be ready to receive question number 3
Waiting for A to be ready to receive question number 3
Waiting for C to be ready to receive question number 3
[]

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File Edit View Search Terminal Help
Please wait for other players to press 'y'
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
To move to Q.No2, press 'Y' : y
Please wait for other players to press 'y'
Question Number 2 : 86 + 88 = ?
Enter 'b' to press the buzzer
Seems like no one knows the right answer, The right answer is174
To move to Q.No3, press 'Y' : []

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File Edit View Search Terminal Help
Please wait for other players to press 'y'
Question Number 1 : 47 + 49 = ?
Enter 'b' to press the buzzer
b
You have pressed the buzzer
You have 10 seconds to answer the question. Go on!
96
Your answer is correct
Your current score is : 1
To move to Q.No2, press 'Y' : y
Question Number 2 : 86 + 88 = ?
Enter 'b' to press the buzzer
Seems like no one knows the right answer, The right answer is174
To move to Q.No3, press 'Y' : []
```

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Activities Terminal
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File Edit View Search Terminal Help
A is ready to receive question number 5
Question Number 5 has been sent to all the clients
C has pressed the buzzer
C has not answered the question in given time after pressing the buzzer
Waiting for C to be ready to receive question number 6
Waiting for A to be ready to receive question number 6
Waiting for B to be ready to receive question number 6
C is ready to receive question number 6
A is ready to receive question number 6
B is ready to receive question number 6
Question Number 6 has been sent to all the clients
[]

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File Edit View Search Terminal Help
Seems like no one knows the right answer, The right answer is 48

To move to Q.No5, press 'Y' : y
Please wait for other players to press 'y'
Question Number 5 : 62 + 64 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
To move to Q.No6, press 'Y' : y
Question Number 6 : 2 + 4 = ?
Enter 'b' to press the buzzer
[]

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File Edit View Search Terminal Help
Seems like no one knows the right answer, The right answer is 48

To move to Q.No5, press 'Y' : y
Please wait for other players to press 'y'
Question Number 5 : 62 + 64 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
To move to Q.No6, press 'Y' : y
Question Number 6 : 2 + 4 = ?
Enter 'b' to press the buzzer
[]

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File Edit View Search Terminal Help
Seems like no one knows the right answer, The right answer is 48

To move to Q.No5, press 'Y' : y
Please wait for other players to press 'y'
Question Number 5 : 62 + 64 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
To move to Q.No6, press 'Y' : y
Question Number 6 : 2 + 4 = ?
Enter 'b' to press the buzzer
[]
```

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Activities Terminal
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File Edit View Search Terminal Help
Waiting for B to be ready to receive question number 12
Waiting for A to be ready to receive question number 12
Waiting for C to be ready to receive question number 12
B is ready to receive question number 12
A is ready to receive question number 12
C is ready to receive question number 12
Question Number 12 has been sent to all the clients
C has pressed the buzzer
C has given the right answer after pressing the buzzer
C has won by scoring 6.0points
The game has ended
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File Edit View Search Terminal Help
Please wait for other players to press 'y'
Question Number 12 : 92 + 94 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
You Lost!! Other user has scored 5points

LEADERBOARD
Name      Points
C         : 5.0
B         : 1
A         : -0.5
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File Edit View Search Terminal Help
Please wait for other players to press 'y'
Question Number 12 : 92 + 94 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
You Lost!! Other user has scored 5points

LEADERBOARD
Name      Points
C         : 5.0
B         : 1
A         : -0.5
dhamodhar@dhamodhar-Lenovo-Ideapad-330-15ICH:~/IMT2019026$

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File Edit View Search Terminal Help
Please wait for other players to press 'y'
Question Number 12 : 92 + 94 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
You Lost!! Other user has scored 5points

LEADERBOARD
Name      Points
C         : 5.0
B         : 1
A         : -0.5
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dhamodhar@dhamodhar-Lenovo-Ideapad-330-15ICH: ~/IMT2019026
File Edit View Search Terminal Help
Please wait for other players to press 'y'
Question Number 12 : 92 + 94 = ?
Enter 'b' to press the buzzer
OOPS, C has already pressed the buzzer
You donot receive any points for this question!
Please wait for the person to answer .....
You Lost!! Other user has scored 5points

LEADERBOARD
Name      Points
C         : 5.0
B         : 1
A         : -0.5
dhamodhar@dhamodhar-Lenovo-Ideapad-330-15ICH:~/IMT2019026$
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