

PROJECT REPORT

About the Project- This project is an implementation of a quiz game with multiple choice options in which there will be one correct answer for each given questions. There are a set of 20 questions. The player giving 5 correct answers will end the game. The questions are given in random order and each player has to press the buzzer to answer the question.

Summary

The game is a code written in Python. In this we connect 3 clients to a single server
Modules used – socket, threading, numpy

Implementation

Contains a server.py and a client.py

Server.py

1. we import all the inbuilt functions in this server.
2. There is a list of 20 questions which will be selected randomly using the rand_que() functions.
3. There is a score list for each client and an answer list.
4. answer_check() will check if the answers are correct or not.
5. Score() will check if any client has reached score 5.
6. we create a socket and then bind a socket.
7. We are taking the input using the select.select() module.

Client.py

1. There is a thread function from the client side.
2. When a person types an answer, other players are sent a signal that indicates that someone else already answered it.
3. Timeout is set for 10 sec.

Instructions:

1. start the server.
2. Then connect the 3 clients from other terminals.
3. Quiz will be started after you run the client.py on those terminals.

I have learnt many things from doing this project like Socket programming, Multi threading.

References:

1. Stackoverflow
2. geeksforgeeks

```
Terminal Sat 1:03 AM 0% 234%
anvit@anvit-Lenovo-Ideapad-330-151KB: ~/Desktop/socket
File Edit View Search Terminal Tabs Help
anvit@anvit-Lenovo-Ideapad-330-151KB: ~/Desktop/socket
anvit@anvit-Lenovo-Ideapad-330-151KB:~/Desktop/socket$ python server.py
Server Started !!!
Connected to a
1 participants in lobby
[('127.0.0.1', 55813)]
Game Starting . . .
Question no 1
Integral sinx?
A.cosx
B.tanx
C.cosx
D.-cosx

Answer given: a: D
[0]
Question no 2
Question no 3
Question no 4
Pa(Pascal) is the unit for?
A.Thrust
B.Pressure
C.Conductivity
D.Frequency

Answer given: a: B
[1]
Question no 5
The founder of www ?
A.Newton
B. steve jobs
C.Tim berners lee
D. Tesla

Answer given: a: C
[2]
Question no 6
Who is the Father of computers?
A.Charles babbage
B.C V Raman
C.Steve jobs
D.Bill Gates
The founder of www ?
A.Newton
B. steve jobs
C.Tim berners lee
D. Tesla

Answer given: a: C
[2]
Question no 7
Question no 8
Metals are good conductors of electricity because?
A.the atoms are tightly packed
..
```