



What is our GOAL for this CLASS?

In this class, we have written code to display the turn of the player also display the winning message when a player wins

What did we ACHIEVE in the class TODAY?

- Wrote code to display the player turn.
- Wrote code to display the name and the score of the player.
- Wrote code to display the winning message and add the reset functionality

Which CONCEPTS/ CODING BLOCKS did we cover today?

Add a bulleted list of new coding concepts that were covered in the class.

- GUI using tkinter.
- Functions



How did we DO the activities?

In earlier classes we have learned te write logic for the player movements.

Today, you completed the ludo ladder game by:-

1. Write a **receivedMsg()** function to get the received message from the client and perform activities such as displaying the dice value, player turn on the screen.

```
All the state of t
def recivedMsg():
                     global playerType
                      global playerTurn
                      global rollButton
                      global screen width
                       global screen_height
                       global canvas2
                       global gameWindow
                       global player1Name
                       global player2Name
                       global player1Label
                      global player2Label
                       global winingFunctionCall
                       while True:
```



```
message = SERVER.recv(2048).decode()
if('player_type' in message):
    recvMsg = eval(message)
    playerType = recvMsg['player type']
    playerTurn = recvMsg['turn']
   - eval(message)

players = players["player_names"]

for p in players:
elif('player names' in message):
             player1Name =
                           p['name']
              layer2Name = p[
          in message):
    canvas2.itemconfigure(dice, text='\u2680')
elif('0' in message):
    canvas2.itemconfigure(dice, text='\u2681')
elif('⊡' in message):
```



```
canvas2.itemconfigure(dice, text='\u2682')
       elif('m' in message):
           canvas2.itemconfigure(dice, text='\u2683')
      elif('⊠' in message):
          canvas2.itemconfigure(dice, text='\u2684')
      elif('
" in message):
          canvas2.itemconfigure(dice, text='\u2685')
                              n message and winingFunctionCall ==
0):
           winingFunctionCall +=1
           handleWin (message)
```

2. Define a **handleWIn()** function to remove the roll dice button from the player screen, display the player win message and place the reset button .



```
def handleWin(message):
    global playerType
    global rollButton
    global canvas2
    global winingMessage
    global screen width
    global screen height
    global resetButton
    #destroying button
    if('Red' in message):
        if(playerType == 'player2'):
            rollButton.destroy()
    if('Yellow' in message):
        if(playerType == 'player1'):
            rollButton.destroy()
    # Adding Wining Message
    message = message.split(" ")[0] + "."
    canvas2.itemconfigure(winingMessage, text = message)
    #Placing Reset Butto
    resetButton.place(x=screen width / 2 - 80, y=screen height - 220)
```



- 3. Write a if condition to check if the message contains "player1Turn" and "player2Turn" in the message. If "player2Turn" in message then call the **movePlayer1()** function by passing diceValue as it's parameter.
- 4. If "player1Turn" in message then call the **movePlayer2()** function by passing diceValue as it's parameter.

```
if('player1Turn' in message or 'player2Turn' in message):
    diceChoices=['@','@','@','@','@','@']
    diceValue = diceChoices.index(message[0]) + 1

if('player2Turn' in message):
    movePlayer1(diceValue)

if('player1Turn' in message):
    movePlayer2(diceValue)
```

5. Write an IF condition to check if the message contains the playerTurn and the player type.

If the message contains **player1Turn** and playerType as player1 then display the roll button for player 1.

If the message contains **player2Turn** and playerType as player2 then display the roll button for player 2.



What's NEXT?

In the next class, we will be working on file transfer protocol.

Expand Your Knowledge:

Explore more about the creating GUI using Tkinter through this link: https://realpython.com/python-qui-tkinter/