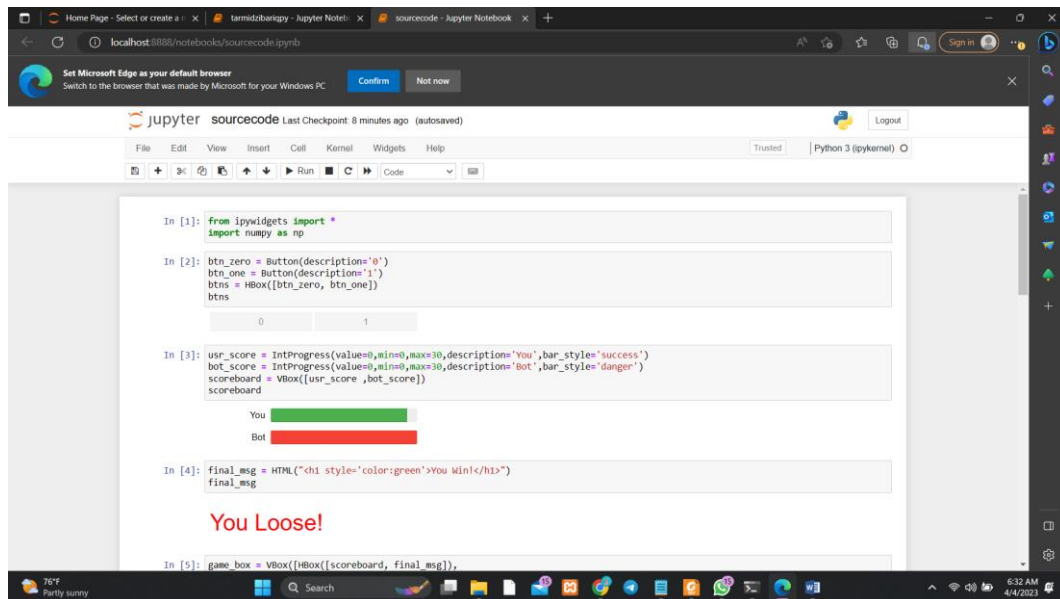


TUGAS PRAKTIKUM PERTEMUAN 4

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NPM : 51422161

Source code



```
In [1]: from ipywidgets import *
import numpy as np

In [2]: btn_zero = Button(description='0')
btn_one = Button(description='1')
btns = HBox([btn_zero, btn_one])
btns

0 1

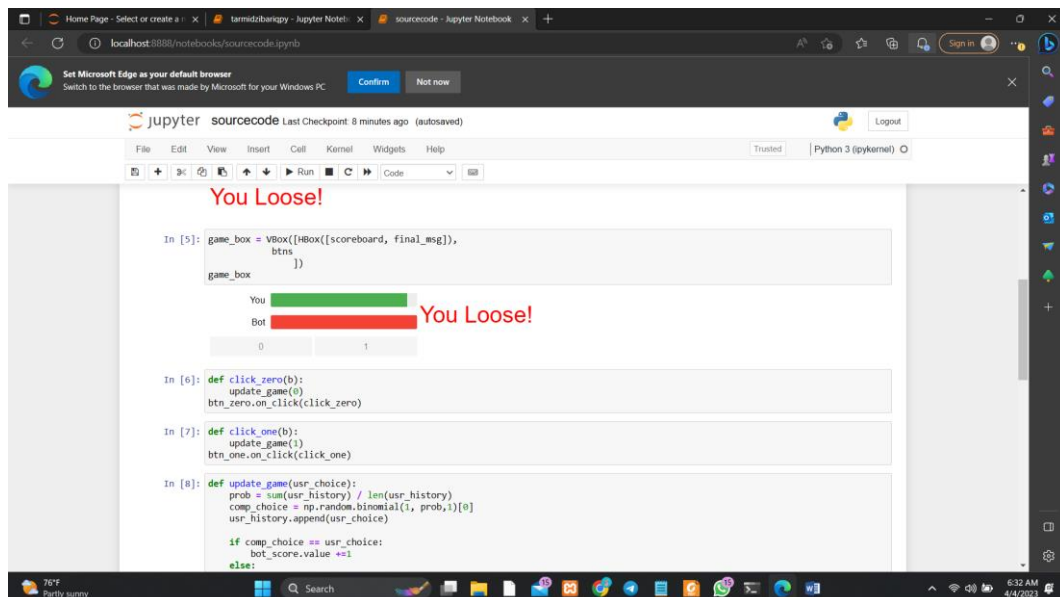
In [3]: usr_score = IntProgress(value=0,min=0,max=30,description='You',bar_style='success')
bot_score = IntProgress(value=0,min=0,max=30,description='Bot',bar_style='danger')
scoreboard = VBox([usr_score, bot_score])

You [green bar]
Bot [red bar]

In [4]: final_msg = HTML("<div style='color:green'>You win!</div>")
final_msg

You Loose!

In [5]: game_box = VBox([HBox([scoreboard, final_msg]),
btns])
```



```
In [5]: game_box = VBox([HBox([scoreboard, final_msg]),
btns])
game_box

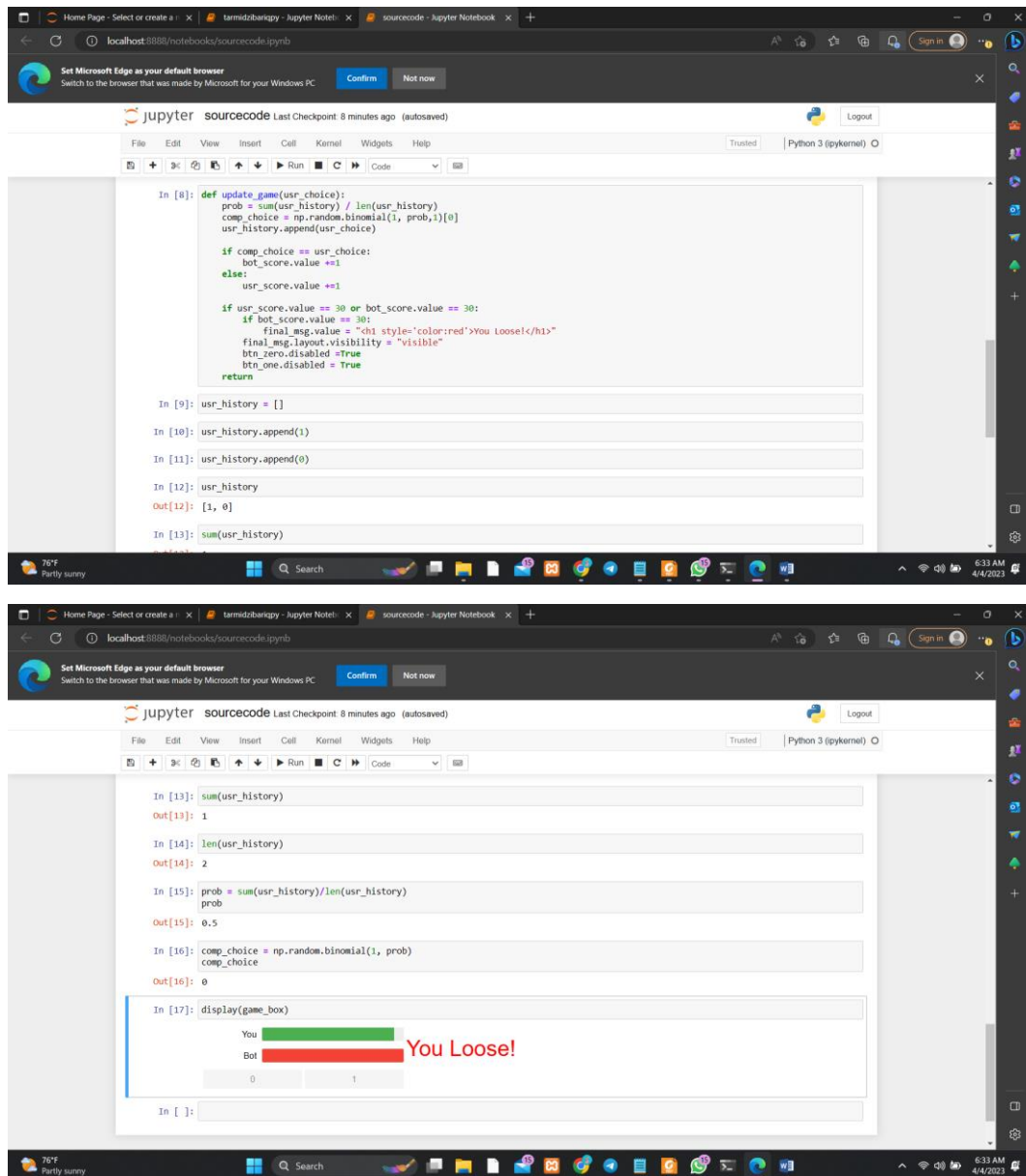
You [green bar]
Bot [red bar] You Loose!

0 1

In [6]: def click_zero(b):
update_game(0)
btn_zero.on_click(click_zero)

In [7]: def click_one(b):
update_game(1)
btn_one.on_click(click_one)

In [8]: def update_game(usr_choice):
prob = sum(usr_history) / len(usr_history)
comp_choice = np.random.binomial(1, prob, 1)[0]
usr_history.append(usr_choice)
if comp_choice == usr_choice:
bot_score.value += 1
else:
```



Game

