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from tkinter import *

team=Tk()

width=team.winfo_screenwidth()
height=team.winfo_screenheight()

def open_team():
    new=Toplevel(team)
    new.geometry("1000x1000")
    new.title("Dash Board")
    photo1=PhotoImage(file="C:\\Users\\SRITHA KOMURAVELLI\\Pictures\\1234.PNG")
    lbl1=Label(new,image=photo1,width=new.winfo_screenwidth(),height=new.winfo_screenheight())
    lbl1.pack()

    btn=Button(new,text='Enter
Records',fg='lemonchiffon2',font=("oswald",16),bg='purple3',command=entry_boxes)
    btn.place(x=450,y=400)

def close2():
    new.destroy()

    btn1=Button(new,text='BACK',bg="green",font=("oswald",16),command=close2)
    btn1.place(x=475,y=450)

    new.mainloop()

def entry_boxes():
    root=Tk()
    root.geometry("1000x1000")

    def ok():
        first_col=[entries[i].get() for i in range(0,4,1)]
        print(first_col)

        second_col=[entries[i].get() for i in range(4,8,1)]
        print(second_col)

        third_col=[entries[i].get() for i in range(8,12,1)]
        print(third_col)

        fourth_col=[entries[i].get() for i in range(12,16,1)]
        print(fourth_col)

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fifth_col=[entries[i].get() for i in range(16,20,1)]
print(fifth_col)

sixth_col=[entries[i].get() for i in range(20,24,1)]
print(sixth_col)
```

```
team_a_name1="".join(first_col)
print(team_a_name1)

team_a_nam1=team_a_name1[0:5].strip()
team_a_scor1=int(team_a_name1[5:7])
print(team_a_scor1)

team_b_nam1=team_a_name1[7:12].strip()
team_b_scor1=int(team_a_name1[12:14])
print(team_b_scor1)
```

```
team_a_name2="".join(second_col)
team_a_nam2=team_a_name2[0:5].strip()
team_a_scor2=int(team_a_name2[5:7])
team_b_nam2=team_a_name2[7:12].strip()
team_b_scor2=int(team_a_name2[12:14])
```

```
team_a_name3="".join(third_col)
team_a_nam3=team_a_name3[0:5].strip()
team_a_scor3=int(team_a_name3[5:7])
team_b_nam3=team_a_name3[7:12].strip()
team_b_scor3=int(team_a_name3[12:14])
```

```
team_a_name4="".join(fourth_col)
team_a_nam4=team_a_name4[0:5].strip()
team_a_scor4=int(team_a_name4[5:7])
team_b_nam4=team_a_name4[7:12].strip()
team_b_scor4=int(team_a_name4[12:14])
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team_a_name5="".join(fifth_col)
team_a_nam5=team_a_name5[0:5].strip()
team_a_scor5=int(team_a_name5[5:7])
team_b_nam5=team_a_name5[7:12].strip()
team_b_scor5=int(team_a_name5[12:14])

team_a_name6="".join(sixth_col)
team_a_nam6=team_a_name6[0:5].strip()
team_a_scor6=int(team_a_name6[5:7])
team_b_nam6=team_a_name6[7:12].strip()
team_b_scor6=int(team_a_name6[12:14])

global records
records = {}

if team_a_scor1>team_b_scor1:
    records.setdefault(team_a_nam1,[]).append(team_b_nam1)
elif team_b_scor1>team_a_scor1:
    records.setdefault(team_b_nam1,[]).append(team_a_nam1)

if team_a_scor2>team_b_scor2:
    records.setdefault(team_a_nam2,[]).append(team_b_nam2)
elif team_b_scor2>team_a_scor2:
    records.setdefault(team_b_nam2,[]).append(team_a_nam2)

if team_a_scor3>team_b_scor3:
    records.setdefault(team_a_nam3,[]).append(team_b_nam3)
elif team_b_scor3> team_a_scor3:
    records.setdefault(team_b_nam3,[]).append(team_a_nam3)

if team_a_scor4>team_b_scor4:
    records.setdefault(team_a_nam4,[]).append(team_b_nam4)

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elif team_b_scor4>team_a_scor4:
    records.setdefault(team_b_nam4,[]).append(team_a_nam4)

if team_a_scor5>team_b_scor5:
    records.setdefault(team_a_nam5,[]).append(team_b_nam5)
elif team_b_scor5>team_a_scor5:
    records.setdefault(team_b_nam5,[]).append(team_a_nam5)

if team_a_scor6>team_b_scor6:
    records.setdefault(team_a_nam6,[]).append(team_b_nam6)
elif team_b_scor6>team_a_scor6:
    records.setdefault(team_b_nam6,[]).append(team_a_nam6)

print(records)

process_queries()

def has_direct_victory(team_a, team_b, records):
    return team_b in records.get(team_a, [])

def has_indirect_victory(team_a, team_b, records):
    visited = set()
    s = [team_a]
    while s:
        current_team=s.pop()
        if current_team==team_b:
            return True
        visited.add(current_team)
        for i in records.get(current_team,[]):
            if i not in visited:
                s.append(i)
    return False

def process_queries():
    global entries1

```

```

entries1=[]

for i in range(1):
    for j in range(2):
        e=Entry(root)
        e.grid(row=13,column=j)
        entries1.append(e)

def query():
    global records,team_a,team_b,num_queries

    output_text.delete("1.0", "end")

    if has_indirect_victory(team_a,team_b,records) and
has_indirect_victory(team_b,team_a,records) :

        output_text.insert("end", f"{team_a} AND {team_b} HAVE DEFEATED EACH OTHER
INDIRECTLY\n")

    elif has_direct_victory(team_a, team_b, records):

        output_text.insert("end", f"{team_a} DEFEATED {team_b} DIRECTLY\n")

    elif has_direct_victory(team_b, team_a, records):

        output_text.insert("end", f"{team_b} DEFEATED {team_a} DIRECTLY\n")

    elif has_indirect_victory(team_a, team_b, records):

        output_text.insert("end", f"{team_a} DEFEATED {team_b} INDIRECTLY\n")

    elif has_indirect_victory(team_b, team_a, records):

        output_text.insert("end", f"{team_b} DEFEATED {team_a} INDIRECTLY\n")

    elif (team_a not in records) or (team_b not in records):

        output_text.insert("end", f"EITHER {team_a} OR {team_b} ARE NOT IN ENTERED RECORDS.
PLEASE CHECK!\n")

    else:

        output_text.insert("end", f"{team_a} AND {team_b} ARE NOT COMPARABLE\n")

output_text = Text(root, height=2, width=120)
output_text.grid(row=13,column=12)

def names():
    global entries1,team_a,team_b

    team_a1=[entries1[i].get() for i in range(0,2,2)]

    team_b1=[entries1[i].get() for i in range(1,2)]

```

```
print("teama ",team_a1)
print("teamb ",team_b1)
team_a="".join(team_a1)
team_b="".join(team_b1)
print(team_a)
print(team_b)
query()
```

```
b=Button(root,text="NEXT",bg="purple3",relief="raised",font=("oswald",10),fg="white",command=names)
```

```
    b.grid(row=13,column=2)
```

```
button = Button(root, text="OK",font=("oswald",10),command=ok)
```

```
button.grid(row=7,column=3,columnspan=4)
```

```
def Close():
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```
    root.destroy()
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```
Btn=Button(root,text="BACK",bg="green",font=("oswald",10),command=Close)
```

```
Btn.grid(row=11,column=3)
```

```
l1=Label(root,text="first team names",font=("oswald",14))
```

```
l1.grid(row=0,column=0)
```

```
l2=Label(root,text="first team score",font=("oswald",14))
```

```
l2.grid(row=0,column=1)
```

```
l3=Label(root,text="second team names",font=("oswald",14))
```

```
l3.grid(row=0,column=2)
```

```
l4=Label(root,text="second team score",font=("oswald",14))
```

```
l4.grid(row=0,column=3)
```

```
l5=Label(root,text="Enter Queries",font=("oswald",14))
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```
l5.grid(row=10,column=0)
```

```
entries=[]
```

```
for i in range(6):
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    for j in range(4):
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        entry=Entry(root)
```

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        entry.grid(row=i+1, column=j)

    entries.append(entry)

def Close():
    root.destroy()

root.mainloop()

def help_win():
    picture=Toplevel(team)
    picture.geometry("%dx%d" % (width, height))
    picture.title("INSTRUCTIONS")
    photo1=PhotoImage(file="C:\\Users\\SRITHA KOMURAVELLI\\Pictures\\instructions1.PNG")

    lbl1=Label(picture,image=photo1,width=picture.winfo_screenwidth(),height=picture.winfo_screenheight())
    lbl1.pack()

    def close1():
        picture.destroy()

        bck=Button(picture,text="BACK",font=("oswald",16),fg="black",bg="green",command=close1)
        bck.place(x=1200,y=650)

        picture.mainloop()

def close():
    team.destroy()

photo=PhotoImage(file="C:\\Users\\SRITHA KOMURAVELLI\\Pictures\\teamdetails.PNG")
lbl=Label(team,image=photo,width=team.winfo_screenwidth(),height=team.winfo_screenheight())
lbl.pack()

team.title("TEAM TOURNAMENT")
team.geometry("%dx%d" % (width, height))

label=Label(team,text="TEAM TOURNAMENT",font=('Helvetica 40 bold'),fg='black',bg='steel blue')
label.place(x=450,y=200)

btn1=Button(team,text="HELP",command=help_win,font=("oswald",28),fg="black",bg="green")
btn1.place(x=250,y=450)

btn2=Button(team,text="ENTER",font=("oswald",28),fg="black",bg="green",command=open_team)

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btn2.place(x=700,y=450)
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btn3=Button(team,text="EXIT",font=("oswald",28),fg="black",bg="green",command=close)
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```
btn3.place(x=1160,y=450)
```

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team.mainloop()
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