

COMPUTER SCIENCE PROJECT

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12

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TIC TAC TOE TOURNAMENT ORGANISER

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CERTIFICATE

This is to certify that **ANSH GOYAL and RAGHAV AGARWAL** of class XII Science has prepared the investigatory computer project entitled '**TIC TAC TOE TOURNAMENT ORGANISER**'. The report is the result of their efforts and endeavors.

The report is found worthy of acceptance as final project report for the subject Chemistry of class XII. They have prepared the report under my guidance.

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ACKNOWLEDGEMENT

Primarily we would like to thank God for being able to complete this project with success. Then we would like to thank my chemistry teacher Mrs. Puja Malhotra ,whose valuable guidance has been the ones that helped us patch this project and make it full proof success her suggestions and her instructions has served as the major contributor towards the completion of the project.

Then we would like to thank our parents and friends who have helped us with their valuable suggestions and guidance has been helpful in various phases of the completion of the project.

Last but not the least we would like to thank our classmates who have helped us a lot.

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INTRODUCTION

The following project created fulfills the requirement of a tournament organizer of the game called tic-tac-toe.

Tic-tac-toe is a game of crosses and circles in which a participant has to get three same signs in a row either diagonally, horizontally or vertically.

To the game the fun of competing with friends in a round robin format have been added in which you can compete in a single group with the winner being the topper of group or multiple groups where the winner of each group then compete in a single group round robin format.

SOURCE CODE

```
import mysql.connector
import random

mysqlcon=mysql.connector.connect(host="localhost",user="root",passwd="",database="project")

mysqlc=mysqlcon.cursor()

print("OX"*30)

print("Welcome to tictactoe tournament we hope you do your best")

gamenos=0
notimes=0
unique=[]
schedule_error=0
player_error=0
while True:
    print("OX"*30)
    choice=int(input("what you want to do \n 1.enter names of players \n 2.View standings \n 3.Play next
```

```
game \n 4.Create/View schedule \n 5.Exit \n 6.Update  
Name\n"))
```

```
if choice==1:
```

```
    print("OX"*30)
```

```
    player_error=1
```

```
    playerdata=[]
```

```
    groups=1
```

```
    players=1
```

```
    print("Entering names of Players: ")
```

```
    while groups%players==0:
```

```
        groups=int(input("how many groups: "))
```

```
        players=int(input("how many players: "))
```

```
        if players%groups!=0 or players/groups==1:
```

```
            print("Error: Number of players must be  
divisible by",groups,"and quotient shouldnt be 1")
```

```
            break
```

```
        k=0
```

```
        for i in range(0,groups):
```

```
            k+=1
```



```

l="Group"+str(k)

mysqlc.execute("create table {}(player_id
char,player_name varchar(20),games_played int,win
int,loss int,draw int,points int)".format(l))

print("entering names for group",i+1)
for j in range(0,players//groups):
    player_id=input("enter player id: ")
    while player_id in unique:
        player_id=input("enter unique id: ")
    unique.append(player_id)
    player_name=input("enter player name: ")
    playerdata.append([player_id,player_name])
    mysqlc.execute("insert into
{}(player_id,player_name,games_played,win,loss,draw,p
oints)
values({}, '{}',0,0,0,0,0)".format(l,player_id,player_name))
    print("OX"*30)
    break

elif choice==2:

```

```
print("OX"*30)
if player_error==0:
    print("Error: First Enter Players")
    continue
mysqlc.execute("show tables")
tables=mysqlc.fetchall()
print(tables)
sgroup=input("which group no you want to see or
champions")
if sgroup=="champions":
    mysqlc.execute("select * from champions order
by points desc")
else:
    shgroup="group"+sgroup
    mysqlc.execute("select * from {} order by points
desc".format(shgroup))
    print("THE TABLE IS AS
\n[PLAYER_ID,PLAYER_NAME,GAMES_PLAYED,WIN,LOSS,
DRAW,POINTS]")
    for i in range(0,players//groups):
```

```
        standings=mysqlc.fetchone()
        print(standings)
        print("OX"*30)
elif choice==5:
    print("OX"*30)
    k=0
    for i in range(0,groups):
        k+=1
        l="Group"+str(k)
        mysqlc.execute("drop table {}".format(l))
    if groups>1:
        mysqlc.execute("drop table champions")
    print("THANK YOU FOR PLAYING")
    print("OX"*30)
    break
elif choice==4:
    print("OX"*30)
    schedule_error=1
    if player_error==0:
```

```
    print("Error: First Enter Player Names")
    continue
    fsch_fake=[]
    for mynameiskhan in range(1,groups+1):
        notimes=0
        mysqlc.execute("select
g1.player_name,g2.player_name from
group"+str(mynameiskhan)+ " g1 cross join
group"+str(mynameiskhan)+ " g2 where
g1.player_name!=g2.player_name order by
g1.player_id+g2.player_id")
        schedul=mysqlc.fetchall()
        notimes+=1
        if notimes==1:
            schedule=schedul.copy()
            schedu=schedule.copy()
            oddsc=[]
            evensc=[]
            while len(schedu)!=0:
                hkhkhkh=random.randrange(0,len(schedule))
```

```
if hkhkhkh%2==0:
    if schedule[hkhkhkh] not in evensc:
        evensc.append(schedule[hkhkhkh])
        schedu.remove(schedule[hkhkhkh])
    else:
        if schedule[hkhkhkh] not in oddsc:
            oddsc.append(schedule[hkhkhkh])
            schedu.remove(schedule[hkhkhkh])
fsch=[]
for element in evensc:
    fsch.append(element)
for element in oddsc:
    fsch.append(element)
fsch_fake.append(fsch)
print("THE SCHEDULE FOR
GROUP",mynameiskhan, "IS AS FOLLOWED
\n[player1,player2]")
for something in fsch:
    print(something)
```

```

    print("OX"*30)
elif choice==3:
    if schedule_error==0:
        print("Error: First Create a Schedule")
        continue
    if groups==1:
        print("OX"*30)
        totalgames=1
        for hhhhhhhh in range(1,players+1):
            totalgames=totalgames*hhhhhhh
        for jjjjjjjjjj in range(1,totalgames+1):
            gameno+=1
            x=fsch[gameno-1][0]
            y=fsch[gameno-1][1]
            t=[["-","-","-"],["-","-","-"],["-","-","-"]]
#tic tac toe main matrice
            for llllllll in t:
                print(lllllll)
            i=1

```

```

c="3"
while i<10 and c!="1" and c!="2":
    if i%2==0:
        print("its your turn",y)
        k=input("enter column (1-3) -> ")
        while k.isalpha()==True:
            k=input("Enter no. between 1 and 3 -> ")
        while int(k)>3 or int(k)<1:
            k=input("Enter no. between 1 and 3 -> ")
        m=input("enter row (1-3) -> ")
        while m.isalpha()==True:
            m=input("Enter no. between 1 and 3 -> ")
        while int(m)>3 or int(m)<1:
            m=input("Enter no. between 1 and 3 -> ")
        while t[int(m)-1][int(k)-1]=="O" or t[int(m)-
1][int(k)-1]=="X":
            k=input("Input unoccupied column (1-3) -
> ")
            while k.isalpha()==True:

```

```

        k=input("Enter no. between 1 and 3 ->
")
        while int(k)>3 or int(k)<1:
            k=input("Enter no. between 1 and 3 ->
")
            m=input("Input unoccupied row (1-3) ->
")
            while m.isalpha()==True:
                m=input("Enter no. between 1 and 3 ->
")
            while int(m)>3 or int(m)<1:
                m=input("Enter no. between 1 and 3 ->
")
            t[int(m)-1][int(k)-1]="O"
#entering the sign in specified position
            i+=1
            print()
            for a in range(0,3):
#printing matrice
                for b in range(0,3):

```



```
        print(t[a][b],end=" ")
    print()
    if t[0][0]==t[0][1]==t[0][2]=="O":
        c="2"
        print(y,"won")
    elif t[1][0]==t[1][1]==t[1][2]=="O":
        c="2"
        print(y,"won")
    elif t[2][0]==t[2][1]==t[2][2]=="O":
        c="2"
        print(y,"won")
    elif t[0][0]==t[1][0]==t[2][0]=="O":
        c="2"
        print(y,"won")
    elif t[0][1]==t[1][1]==t[2][1]=="O":
        c="2"
        print(y,"won")
    elif t[0][2]==t[1][2]==t[2][2]=="O":
        c="2"
```

```
        print(y,"won")
    elif t[0][0]==t[1][1]==t[2][2]=="O":
        c="2"
        print(y,"won")
    elif t[0][2]==t[1][1]==t[2][0]=="O":
        c="2"
        print(y,"won")
    elif i==9 and c!="1" and c!="2":
        c="3"
        print("draw it is")
    else:
        c="0"
        print()
        continue
else: #chance of player 2
    print("its your turn",x)
    k=input("enter column (1-3) -> ")
    while k.isalpha()==True:
        k=input("Enter no. between 1 and 3 -> ")
```

```

while int(k)>3 or int(k)<1:
    k=input("Enter no. between 1 and 3 -> ")
m=input("enter row (1-3) -> ")
while m.isalpha()==True:
    m=input("Enter no. between 1 and 3 -> ")
while int(m)>3 or int(m)<1:
    m=input("Enter no. between 1 and 3 -> ")
while t[int(m)-1][int(k)-1]=="O" or t[int(m)-
1][int(k)-1]=="X":
    k=input("Input unoccupied column (1-3) -
> ")
    while k.isalpha()==True:
        k=input("Enter no. between 1 and 3 ->
")
        while int(k)>3 or int(k)<1:
            k=input("Enter no. between 1 and 3 ->
")
            m=input("Input unoccupied row (1-3) ->
")
            while m.isalpha()==True:

```

```

        m=input("Enter no. between 1 and 3 ->
")
        while int(m)>3 or int(m)<1:
            m=input("Enter no. between 1 and 3 ->
")

        t[int(m)-1][int(k)-1]="X"
        i+=1
        print("")
        for a in range(0,3):
            for b in range(0,3):
                print(t[a][b],end=" ")
            print()
        if t[0][0]==t[0][1]==t[0][2]=="X":
            c="1"
            print("Player",x,"won")
        elif t[1][0]==t[1][1]==t[1][2]=="X":
            c="1"
            print("Player",x,"won")
        elif t[2][0]==t[2][1]==t[2][2]=="X":

```

```
c="1"
print("Player",x,"won")
elif t[0][0]==t[1][0]==t[2][0]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][1]==t[1][1]==t[2][1]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][2]==t[1][2]==t[2][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][0]==t[1][1]==t[2][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][2]==t[1][1]==t[2][0]=="X":
    c="1"
    print("Player",x,"won")
elif i==9 and c!="1" and c!="2":
    c="3"
```

```
        print("draw it is")
    else:
        c="0"
        print()
        continue
    if c=="2":
        mysqlc.execute("update group1 set
games_played=games_played+1 where
player_name='{}'.format(y))
        mysqlc.execute("update group1 set
win=win+1 where player_name='{}'.format(y))
        mysqlc.execute("update group1 set
points=points+2 where player_name='{}'.format(y))
        mysqlc.execute("update group1 set
loss=loss+1 where player_name='{}'.format(x))
        mysqlc.execute("update group1 set
games_played=games_played+1 where
player_name='{}'.format(x))
        mysqlcon.commit()
    elif c=="1":
```

```
mysqlc.execute("update group1 set  
games_played=games_played+1 where  
player_name='{}'.format(x))
```

```
mysqlc.execute("update group1 set  
win=win+1 where player_name='{}'.format(x))
```

```
mysqlc.execute("update group1 set  
points=points+2 where player_name='{}'.format(x))
```

```
mysqlc.execute("update group1 set  
loss=loss+1 where player_name='{}'.format(y))
```

```
mysqlc.execute("update group1 set  
games_played=games_played+1 where  
player_name='{}'.format(y))
```

```
mysqlcon.commit()
```

```
elif c=="3":
```

```
mysqlc.execute("update group1 set  
games_played=games_played+1 where  
player_name='{}'.format(x))
```

```
mysqlc.execute("update group1 set  
draw=draw+1 where player_name='{}'.format(x))
```

```
mysqlc.execute("update group1 set  
points=points+1 where player_name='{}'.format(x))
```

```

        mysqlc.execute("update group1 set
games_played=games_played+1 where
player_name='{}'.format(y))

        mysqlc.execute("update group1 set
draw=draw+1 where player_name='{}'.format(y))

        mysqlc.execute("update group1 set
points=points+1 where player_name='{}'.format(y))

        mysqlcon.commit()

        mysqlc.execute("select player_name from group1
where points=(select max(points) from group1)")

        winner=mysqlc.fetchall()

        print("winner is",winner[0])

        print("OX"*30)

    elif groups>1:#-----
-----

        print("OX"*30)

        for abb in range (1,groups +1):

            nummb=len(fsch_fake[0])

            boooooo="group"+str(abb)

            for cdd in range(1,nummb+1):

```



```

        print("Group", abb, "matches...")
        gameno+=1
        x=fsch_fake[abb-1][gameno-1][0]
#fsch_fake=[(['b', 'a'), ('a', 'b')], [(['d', 'c'), ('c', 'd')]]
        y=fsch_fake[abb-1][gameno-1][1]
        t=[["-", "-", "-"], ["-", "-", "-"], ["-", "-", "-"]] #tic tac
toe main matrice
        print(cdd,')', x, "VS", y)
        for llllllll in t:
            print(llllllll)
        i=1
        c="3"
        while i<10 and c!="1" and c!="2":
            if i%2==0:
                print("its your turn",y)
                k=input("enter column (1-3) -> ")
                while k.isalpha()==True:
                    k=input("Enter no. between 1 and 3 ->
")

```

```

while int(k)>3 or int(k)<1:
    k=input("Enter no. between 1 and 3 -> ")
    m=input("enter row (1-3) -> ")
    while m.isalpha()==True:
        m=input("Enter no. between 1 and 3 -> ")
    while int(m)>3 or int(m)<1:
        m=input("Enter no. between 1 and 3 -> ")
    while t[int(m)-1][int(k)-1]=="O" or
t[int(m)-1][int(k)-1]=="X":
        k=input("Input unoccupied column (1-
3) -> ")
        while k.isalpha()==True:
            k=input("Enter no. between 1 and 3 -
> ")
        while int(k)>3 or int(k)<1:
            k=input("Enter no. between 1 and 3 -
> ")

```

```

> ")
        m=input("Input unoccupied row (1-3) -
-> ")
        while m.isalpha()==True:
            m=input("Enter no. between 1 and 3
-> ")
        while int(m)>3 or int(m)<1:
            m=input("Enter no. between 1 and 3
-> ")
        t[int(m)-1][int(k)-1]="O"
#entering the sign in specified position
        i+=1
        print()
        for a in range(0,3):
#printing matrice
            for b in range(0,3):
                print(t[a][b],end=" ")
            print()
        if t[0][0]==t[0][1]==t[0][2]=="O":
            c="2"
            print(y,"won")

```

```
elif t[1][0]==t[1][1]==t[1][2]=="O":
```

```
    c="2"
```

```
    print(y,"won")
```

```
elif t[2][0]==t[2][1]==t[2][2]=="O":
```

```
    c="2"
```

```
    print(y,"won")
```

```
elif t[0][0]==t[1][0]==t[2][0]=="O":
```

```
    c="2"
```

```
    print(y,"won")
```

```
elif t[0][1]==t[1][1]==t[2][1]=="O":
```

```
    c="2"
```

```
    print(y,"won")
```

```
elif t[0][2]==t[1][2]==t[2][2]=="O":
```

```
    c="2"
```

```
    print(y,"won")
```

```
elif t[0][0]==t[1][1]==t[2][2]=="O":
```

```
    c="2"
```

```
    print(y,"won")
```

```
elif t[0][2]==t[1][1]==t[2][0]=="O":
```

```
        c="2"
        print(y,"won")
    elif i==9 and c!="1" and c!="2":
        c="3"
        print("draw it is")
    else:
        c="0"
        print()
        continue
else: #chance of player 2
    print("its your turn",x)
    k=input("enter column (1-3) -> ")
    while k.isalpha()==True:
        k=input("Enter no. between 1 and 3 -> ")
    while int(k)>3 or int(k)<1:
        k=input("Enter no. between 1 and 3 -> ")
    m=input("enter row (1-3) -> ")
```

```

while m.isalpha()==True:
    m=input("Enter no. between 1 and 3 ->
")

while int(m)>3 or int(m)<1:
    m=input("Enter no. between 1 and 3 ->
")

while t[int(m)-1][int(k)-1]=="O" or
t[int(m)-1][int(k)-1]=="X":
    k=input("Input unoccupied column (1-
3) -> ")

while k.isalpha()==True:
    k=input("Enter no. between 1 and 3 -
> ")

while int(k)>3 or int(k)<1:
    k=input("Enter no. between 1 and 3 -
> ")

m=input("Input unoccupied row (1-3) -
> ")

while m.isalpha()==True:
    m=input("Enter no. between 1 and 3
-> ")

```

```
while int(m)>3 or int(m)<1:
    m=input("Enter no. between 1 and 3
-> ")

t[int(m)-1][int(k)-1]="X"
i+=1
print("")
for a in range(0,3):
    for b in range(0,3):
        print(t[a][b],end=" ")
    print()
if t[0][0]==t[0][1]==t[0][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[1][0]==t[1][1]==t[1][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[2][0]==t[2][1]==t[2][2]=="X":
    c="1"
    print("Player",x,"won")
```

```
elif t[0][0]==t[1][0]==t[2][0]=="X":
```

```
    c="1"
```

```
    print("Player",x,"won")
```

```
elif t[0][1]==t[1][1]==t[2][1]=="X":
```

```
    c="1"
```

```
    print("Player",x,"won")
```

```
elif t[0][2]==t[1][2]==t[2][2]=="X":
```

```
    c="1"
```

```
    print("Player",x,"won")
```

```
elif t[0][0]==t[1][1]==t[2][2]=="X":
```

```
    c="1"
```

```
    print("Player",x,"won")
```

```
elif t[0][2]==t[1][1]==t[2][0]=="X":
```

```
    c="1"
```

```
    print("Player",x,"won")
```

```
elif i==9 and c!="1" and c!="2":
```

```
    c="3"
```

```
    print("draw it is")
```

```
else:
```



```
        c="0"
        print()
        continue
    if c=="2":
        mysqlc.execute("update {} set
games_played=games_played+1 where
player_name='{}'.format(booooooo,x))
        mysqlc.execute("update {} set win=win+1
where player_name='{}'.format(booooooo,x))
        mysqlc.execute("update {} set
points=points+2 where
player_name='{}'.format(booooooo,x))
        mysqlc.execute("update {} set loss=loss+1
where player_name='{}'.format(booooooo,x))
        mysqlc.execute("update {} set
games_played=games_played+1 where
player_name='{}'.format(booooooo,x))
        mysqlcon.commit()
    elif c=="1":
```

```
mysqlc.execute("update {} set  
games_played=games_played+1 where  
player_name='{}'.format(boooooo,y))
```

```
mysqlc.execute("update {} set win=win+1  
where player_name='{}'.format(boooooo,y))
```

```
mysqlc.execute("update {} set  
points=points+2 where  
player_name='{}'.format(boooooo,y))
```

```
mysqlc.execute("update {} set loss=loss+1  
where player_name='{}'.format(boooooo,y))
```

```
mysqlc.execute("update {} set  
games_played=games_played+1 where  
player_name='{}'.format(boooooo,y))
```

```
mysqlcon.commit()
```

```
elif c=="3":
```

```
mysqlc.execute("update {} set  
games_played=games_played+1 where  
player_name='{}'.format(boooooo,x))
```

```
mysqlc.execute("update {} set  
draw=draw+1 where  
player_name='{}'.format(boooooo,x))
```

```
mysqlc.execute("update {} set  
points=points+1 where  
player_name='{}'.format(boooooo,x))
```

```
mysqlc.execute("update {} set  
games_played=games_played+1 where  
player_name='{}'.format(boooooo,y))
```

```
mysqlc.execute("update {} set  
draw=draw+1 where  
player_name='{}'.format(boooooo,y))
```

```
mysqlc.execute("update {} set  
points=points+1 where  
player_name='{}'.format(boooooo,y))
```

```
mysqlcon.commit()
```

```
print("OX"*30)
```

```
mysqlc.execute("select * from {} order by  
points desc".format(boooooo))
```

```
print("THE TABLE IS AS  
\n[PLAYER_ID,PLAYER_NAME,GAMES_PLAYED,WIN,LOSS,  
DRAW,POINTS]")
```

```
for i in range(0,players//groups):
```

```
standings=mysqlc.fetchone()
```

```

        print(standings)

        print("OX"*30)

        gameno=0

        #-----

        print("OX"*30)

        print("welcome group winners for the ultimate
win")

        print("the schedule is as followed")

        boomboom=0

        mysqlc.execute("create table champions(player_id
char,player_name varchar(20),games_played int,win
int,loss int,draw int,points int)")

        for ddoodod in range(1,groups+1):

            kiro="group"+str(ddoodod)

            mysqlc.execute("select player_name from {}
where points=(select max(points) from
{}).format(kiro,kiro))

            finalistsss=mysqlc.fetchone()

            mysqlc.execute("select player_id from {} where
points=(select max(points) from {}).format(kiro,kiro))

```

```

        finalistsss=mysqlc.fetchone()

        mysqlc.execute("insert into
champions(player_id,player_name,games_played,win,los
s,draw,points)
values({}, '{}',0,0,0,0,0)".format(finalistsss[0],finalistsss[0]
))

        mysqlc.execute("select * from champions")
        table=mysqlc.fetchall()
        print(table)
        notimes=0

        mysqlc.execute("select
g1.player_name,g2.player_name from champions g1
cross join champions g2 where
g1.player_name!=g2.player_name order by
g1.player_id+g2.player_id")

        schedul=mysqlc.fetchall()
        notimes+=1
        if notimes==1:
            schedule=schedul.copy()
            schedu=schedule.copy()
            oddsc=[]

```

```
evensc=[]
while len(schedu)!=0:
    hkhkhkh=random.randrange(0,len(schedule))
    if hkhkhkh%2==0:
        if schedule[hkhkhkh] not in evensc:
            evensc.append(schedule[hkhkhkh])
            schedu.remove(schedule[hkhkhkh])
    else:
        if schedule[hkhkhkh] not in oddsc:
            oddsc.append(schedule[hkhkhkh])
            schedu.remove(schedule[hkhkhkh])
fsch=[]
for element in evensc:
    fsch.append(element)
for element in oddsc:
    fsch.append(element)
fsch_fake.append(fsch)
print("THE SCHEDULE FOR GROUP CHAMPIONS IS
AS FOLLOWED \n [player1,player2]")
```

```

for something in fsch:
    print(something)
print("OX"*30)
#-----

totalgames=1
for hhhhhhhh in range(1,groups+1):
    totalgames=totalgames*hhhhhhh
for jjjjjjjjjj in range(1,totalgames+1):
    gameno+=1
    x=fsch[gameno-1][0]
    y=fsch[gameno-1][1]
    t=[["-","-","-"],["-","-","-"],["-","-","-"]]
#tic tac toe main matrice
    for llllllll in t:
        print(lllllll)
    i=1
    c="3"
    while i<10 and c!="1" and c!="2":
        if i%2==0:

```

```

print("its your turn",y)
k=input("enter column (1-3) -> ")
while k.isalpha()==True:
    k=input("Enter no. between 1 and 3 -> ")
while int(k)>3 or int(k)<1:
    k=input("Enter no. between 1 and 3 -> ")
m=input("enter row (1-3) -> ")
while m.isalpha()==True:
    m=input("Enter no. between 1 and 3 -> ")
while int(m)>3 or int(m)<1:
    m=input("Enter no. between 1 and 3 -> ")
while t[int(m)-1][int(k)-1]=="O" or t[int(m)-
1][int(k)-1]=="X":
    k=input("Input unoccupied column (1-3) -
> ")
    while k.isalpha()==True:
        k=input("Enter no. between 1 and 3 ->
")
        while int(k)>3 or int(k)<1:

```



```

        k=input("Enter no. between 1 and 3 ->
")
        m=input("Input unoccupied row (1-3) ->
")
        while m.isalpha()==True:
            m=input("Enter no. between 1 and 3 ->
")
        while int(m)>3 or int(m)<1:
            m=input("Enter no. between 1 and 3 ->
")
        t[int(m)-1][int(k)-1]="O"
#entering the sign in specified position
        i+=1
        print()
        for a in range(0,3):
#printing matrice
            for b in range(0,3):
                print(t[a][b],end=" ")
            print()
        if t[0][0]==t[0][1]==t[0][2]=="O":

```

```
c="2"
print(y,"won")
elif t[1][0]==t[1][1]==t[1][2]=="O":
    c="2"
    print(y,"won")
elif t[2][0]==t[2][1]==t[2][2]=="O":
    c="2"
    print(y,"won")
elif t[0][0]==t[1][0]==t[2][0]=="O":
    c="2"
    print(y,"won")
elif t[0][1]==t[1][1]==t[2][1]=="O":
    c="2"
    print(y,"won")
elif t[0][2]==t[1][2]==t[2][2]=="O":
    c="2"
    print(y,"won")
elif t[0][0]==t[1][1]==t[2][2]=="O":
    c="2"
```

```
        print(y,"won")
    elif t[0][2]==t[1][1]==t[2][0]=="O":
        c="2"
        print(y,"won")
    elif i==9 and c!="1" and c!="2":
        c="3"
        print("draw it is")
    else:
        c="0"
        print()
        continue
else: #chance of player 2
    print("its your turn",x)
    k=input("enter column (1-3) -> ")
    while k.isalpha()==True:
        k=input("Enter no. between 1 and 3 -> ")
    while int(k)>3 or int(k)<1:
        k=input("Enter no. between 1 and 3 -> ")
    m=input("enter row (1-3) -> ")
```

```

while m.isalpha()==True:
    m=input("Enter no. between 1 and 3 -> ")
while int(m)>3 or int(m)<1:
    m=input("Enter no. between 1 and 3 -> ")
while t[int(m)-1][int(k)-1]=="O" or t[int(m)-
1][int(k)-1]=="X":
    k=input("Input unoccupied column (1-3) -
> ")
while k.isalpha()==True:
    k=input("Enter no. between 1 and 3 ->
")
while int(k)>3 or int(k)<1:
    k=input("Enter no. between 1 and 3 ->
")
m=input("Input unoccupied row (1-3) ->
")
while m.isalpha()==True:
    m=input("Enter no. between 1 and 3 ->
")
while int(m)>3 or int(m)<1:

```

```
)
    m=input("Enter no. between 1 and 3 ->

t[int(m)-1][int(k)-1]="X"
i+=1
print("")
for a in range(0,3):
    for b in range(0,3):
        print(t[a][b],end=" ")
    print()
if t[0][0]==t[0][1]==t[0][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[1][0]==t[1][1]==t[1][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[2][0]==t[2][1]==t[2][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][0]==t[1][0]==t[2][0]=="X":
```

```
c="1"
print("Player",x,"won")
elif t[0][1]==t[1][1]==t[2][1]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][2]==t[1][2]==t[2][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][0]==t[1][1]==t[2][2]=="X":
    c="1"
    print("Player",x,"won")
elif t[0][2]==t[1][1]==t[2][0]=="X":
    c="1"
    print("Player",x,"won")
elif i==9 and c!="1" and c!="2":
    c="3"
    print("draw it is")
else:
    c="0"
```

```
        print()
        continue
    if c=="2":
        mysqlc.execute("update champions set
games_played=games_played+1 where
player_name='{}'.format(y))

        mysqlc.execute("update champions set
win=win+1 where player_name='{}'.format(y))

        mysqlc.execute("update champions set
points=points+2 where player_name='{}'.format(y))

        mysqlc.execute("update champions set
loss=loss+1 where player_name='{}'.format(x))

        mysqlc.execute("update champions set
games_played=games_played+1 where
player_name='{}'.format(x))

        mysqlcon.commit()
    elif c=="1":
        mysqlc.execute("update champions set
games_played=games_played+1 where
player_name='{}'.format(x))
```

```
mysqlc.execute("update champions set  
win=win+1 where player_name='{}'.format(x))
```

```
mysqlc.execute("update champions set  
points=points+2 where player_name='{}'.format(x))
```

```
mysqlc.execute("update champions set  
loss=loss+1 where player_name='{}'.format(y))
```

```
mysqlc.execute("update champions set  
games_played=games_played+1 where  
player_name='{}'.format(y))
```

```
mysqlcon.commit()
```

```
elif c=="3":
```

```
mysqlc.execute("update champions set  
games_played=games_played+1 where  
player_name='{}'.format(x))
```

```
mysqlc.execute("update champions set  
draw=draw+1 where player_name='{}'.format(x))
```

```
mysqlc.execute("update champions set  
points=points+1 where player_name='{}'.format(x))
```

```
mysqlc.execute("update champions set  
games_played=games_played+1 where  
player_name='{}'.format(y))
```



```
mysqlc.execute("update champions set
draw=draw+1 where player_name='{}'.format(y))

mysqlc.execute("update champions set
points=points+1 where player_name='{}'.format(y))

mysqlcon.commit()
```

```
mysqlc.execute("select player_name from
champions where points=(select max(points) from
champions)")
```

```
winner=mysqlc.fetchall()
print("winner is",winner[0])
print("OX"*30)
```

```
print("OX"*30)
```

```
elif choice==6:
```

```
print("OX"*30)
```

```
if groups==1:
```

```
p=input("enter new name")
```

```
q=input("enter original name")
```

```
mysqlc.execute("update group1 set  
player_name='{}' where player_name='{}'".format(p,q))  
print("OX"*30)
```

OUTPUT

```
OXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Welcome to tictactoe tournament we hope you do your best
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
what you want to do
    1.enter names of players
    2.View standings
    3.Play next game
    4.Create/View schedule
    5.Exit
    6.Update Name
1
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Entering names of Players:
how many groups: 2
how many players: 3
Error: Number of players must be divisible by 2 and quotient shouldnt be 1
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
what you want to do
    1.enter names of players
    2.View standings
    3.Play next game
    4.Create/View schedule
    5.Exit
    6.Update Name
1
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Entering names of Players:
how many groups: 1
how many players: 1
Error: Number of players must be divisible by 1 and quotient shouldnt be 1
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
what you want to do
    1.enter names of players
    2.View standings
    3.Play next game
    4.Create/View schedule
    5.Exit
    6.Update Name
1
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Entering names of Players:
how many groups: 2
how many players: 4
entering names for group 1
```

[illegible]

```
THE SCHEDULE FOR GROUP 2 IS AS FOLLOWED
[player1,player2]
('f','d')
('d','f')
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
what you want to do
 1.enter names of players
 2.View standings
 3.Play next game
 4.Create/View schedule
 5.Exit
 6.Update Name
B
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Group 1 matches...
1 ) s VS a
['-', '-', '-']
['-', '-', '-']
['-', '-', '-']
its your turn s
enter column (1-3) -> 1
enter row (1-3) -> 1

X - -
- - -
- - -

its your turn a
enter column (1-3) -> 2
enter row (1-3) -> 1

X O -
- - -
- - -

its your turn s
enter column (1-3) -> 1
enter row (1-3) -> 2

X O -
X - -
- - -
```

[illegible]

[illegible]

```

- - -
- - -

its your turn d
enter column (1-3) -> 1
enter row (1-3) -> 2

X - -
0 - -
- - -

its your turn f
enter column (1-3) -> 2
enter row (1-3) -> 1

X X -
0 - -
- - -

its your turn d
enter column (1-3) -> 2
enter row (1-3) -> 2

X X -
0 0 -
- - -

its your turn f
enter column (1-3) -> 3
enter row (1-3) -> 1

X X X
0 0 -
- - -
Player f won
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
THE TABLE IS AS
[PLAYER_ID,PLAYER_NAME,GAMES_PLAYED,WIN,LOSS,DRAW,POINTS]
('3', 'd', 2, 1, 1, 0, 2)
('4', 'f', 0, 0, 0, 0, 0)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Group 2 matches...
2 ) d VS f
['-', '-', '-']

```



```
2 ) d VS f
['-', '-', '-']
['-', '-', '-']
['-', '-', '-']
its your turn d
enter column (1-3) -> 1
enter row (1-3) -> 1

X - -
- - -
- - -

its your turn f
enter column (1-3) -> 2
enter row (1-3) -> 2

X - -
- O -
- - -

its your turn d
enter column (1-3) -> 1
enter row (1-3) -> 2

X - -
X O -
- - -

its your turn f
enter column (1-3) -> 2
enter row (1-3) -> 1

X O -
X O -
- - -

its your turn d
enter column (1-3) -> 3
enter row (1-3) -> 1

X O X
X O -
- - -
```

[illegible]

```
X O -  
- - -  
- - -  
  
its your turn d  
enter column (1-3) -> 1  
enter row (1-3) -> 2
```

```
X O -  
X - -  
- - -
```

```
its your turn a  
enter column (1-3) -> 2  
enter row (1-3) -> 2
```

```
X O -  
X O -  
- - -
```

```
its your turn d  
enter column (1-3) -> 1  
enter row (1-3) -> 3
```

```
X O -  
X O -  
X - -
```

```
Player d won  
['-', '-', '-']  
['-', '-', '-']  
['-', '-', '-']
```

```
its your turn a  
enter column (1-3) -> 2  
enter row (1-3) -> 1
```

```
- X -  
- - -  
- - -
```

```
its your turn d  
enter column (1-3) -> 1  
enter row (1-3) -> 1
```

```
enter column (1-3) -> 1
enter row (1-3) -> 1
```

0	X	-
-	-	-
-	-	-

```
its your turn a
enter column (1-3) -> 2
enter row (1-3) -> 2
```

0	X	-
-	X	-
-	-	-

```
its your turn d
enter column (1-3) -> 1
enter row (1-3) -> 2
```

0	X	-
0	X	-
-	-	-

```
its your turn a
enter column (1-3) -> 3
enter row (1-3) -> 1
```

0	X	X
0	X	-
-	-	-

```
its your turn d
enter column (1-3) -> 1
enter row (1-3) -> 3
```

0	X	X
0	X	-
0	-	-

d won

```
winner is ('d',)
```

[illegible]

[illegible]

what you want to do

1. enter names of players
2. View standings
3. Play next game
4. Create/View schedule
5. Exit
6. Update Name

2

0X

```
[('champions',), ('group1',), ('group2',)]
```

```
which group no you want to see1
```

THE TABLE IS AS

```
[PLAYER_ID,PLAYER NAME,GAMES PLAYED,WIN,LOSS,DRAW,POINTS]
```

```
('1', 'a', 4, 2, 2, 0, 4)
```

```
('2', '5', 0, 0, 0, 0, 0)
```

```
0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X
```

```
0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X
```

what you want to do

- ```

1. enter names of players
2. View standings
3. Play next game
4. Create/View schedule
5. Exit
6. Update Name

```

2

0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X0X

```
[('champions',), ('group1',), ('group2',)]
```

```
which group no you want to see2
```

THE TABLE IS AS

```
[PLAYER ID,PLAYER NAME,GAMES PLAYED,WIN,LOSS,DRAW,POINTS]
```

```
('3', 'd', 4, 2, 2, 0, 4)
```

```
('4', 'f', 0, 0, 0, 0, 0)
```

```
0X
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 OXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOXOX

what you want to do

- ```

1.enter names of players
2.View standings
3.Play next game
4.Create/View schedule
5.Exit
6.Update Name

```

ENHANCEMENTS

Though we tried our level best given the things that we had learnt in class XII and XI but still there were some thing that we hoped would be included in our project with few of them listed below.

- Graphical viewpoint of the game
- Eliminator type game mode
- Entry of computer as participant in the tournament

HARDWARES AND SOFTWARES USED

- Python 3.7
- MySQL 8.0
- Device Name: HP348
- Processor: Intel® Core™ i5-6200U CPU @ 2.30GHz
2.40 GHz
- Installed Ram: 8.00 GB
- System Type: 64-bit Operating System, x64 based
processor
- Windows: Windows 10 Education

BIBLIOGRAPHY

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