

K.RAMAKRISHNAN
COLLEGE OF TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
SAMAYAPURAM, TRICHY-621 112

Practical Record Note

Name : PADMACHARAN S
Register Number : 2303811710421112
Subject code/name : Laboratory
Programme :

CodeTantra

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NAME: PADMACHARAN S | ID: 2303811710421112> COURSE: Python Programming - I Year - II Sem - Project
Module Page No.: 3

Certified that this is a bonafide record of work done by
PADMACHARAN S of
Semester in **Python Programming - I Year - II Sem - Project**
Module Laboratory during the academic year 2023-2024

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Staff Incharge

Head of the Department

Submitted for the Practical exam held on:

NAME: PADMACHARAN S | ID: 2303811710421112> COURSE: Python Programming - I Year - II Sem - Project
Module Page No.: 4

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Internal Examiner

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Module Page No.: 5

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Date:

External Examiner

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Date:

Aim:

Project Module.

Program:

CTP28132.py

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```

import os
import time

board = [' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ']
player = 1

# Win Flags
Win = 1
Draw = -1
Running = 0
Stop = 1

Game = Running
Mark = 'X'

def DrawBoard():
    print(" %c | %c | %c " % (board[1], board[2], board[3]))
    print(" | | _")
    print(" %c | %c | %c " % (board[4], board[5], board[6]))
    print(" | | _")
    print(" %c | %c | %c " % (board[7], board[8], board[9]))
    print(" | | ")

def CheckPosition(x):
    if board[x] == ' ':
        return True
    else:
        return False

def CheckWin():
    global Game

    if board[1] == board[2] and board[2] == board[3] and board[1] != ' ':
        Game = Win
    elif board[4] == board[5] and board[5] == board[6] and board[4] != ' ':
        Game = Win
    elif board[7] == board[8] and board[8] == board[9] and board[7] != ' ':
        Game = Win
    elif board[1] == board[4] and board[4] == board[7] and board[1] != ' ':
        Game = Win
    elif board[2] == board[5] and board[5] == board[8] and board[2] != ' ':
        Game = Win
    elif board[3] == board[6] and board[6] == board[9] and board[3] != ' ':
        Game = Win
    elif board[1] == board[5] and board[5] == board[9] and board[1] != ' ':
        Game = Win
    elif board[3] == board[5] and board[5] == board[7] and board[3] != ' ':
        Game = Win
    elif board[1] != ' ' and board[2] != ' ' and board[3] != ' ' and \
        board[4] != ' ' and board[5] != ' ' and board[6] != ' ' and \
        board[7] != ' ' and board[8] != ' ' and board[9] != ' ':
        Game = Draw
    else:
        Game = Running

```

```

print("Tic-Tac-Toe Game Designed By PADMACHARAN")
print("Player 1 [X] --- Player 2 [O]\n")
print()
print()
print("Please Wait...")
time.sleep(3)

while Game == Running:
    os.system('cls')
    DrawBoard()

    if player % 2 != 0:
        print("Player 1's chance")
        Mark = 'X'
    else:
        print("Player 2's chance")
        Mark = 'O'

    choice = int(input("Enter the position between [1-9] where you want to mark:
"))
    if CheckPosition(choice):
        board[choice] = Mark
        player += 1
        CheckWin()

    os.system('cls')
    DrawBoard()

    if Game == Draw:
        print("Game Draw")
    elif Game == Win:
        player -= 1
        if player % 2 != 0:
            print("Player 1 Won")
        else:
            print("Player 2 Won")

```

Output:

Test case - 1

User Output

Hello World

Hello World

Result:

Thus the above program is executed successfully and the output has been verified

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