# 1.#write a program to play a tic tac toe game

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***SUB CODE-4BCS105***

***PROGRAMMING WITH PYTHON { PROJECT-3}***

**#assigning** **the no.of sections in a box**

a=['1','2','3','4','5','6','7','8','9']

**#defining a function to assign the numbers for section**

def b():

print(a[0]+'|'+a[1]+'|'+a[2])

print("--------------------")

print(a[3]+'|'+a[4]+'|'+a[5])

print("--------------------")

print(a[6]+'|'+a[7]+'|'+a[8])

p1Turn=True

**#using while loop,if else statements giving conditions to choose place of player 1 and player 2**

while True:

b()

s=input("choose place:")

if(s in a):

if(a[int(s)-1]=='x' or a[int(s)-1]=='o'):

print("already choosen place take other:")

continue

else:

if p1Turn:

print("p1>>")

a[int(s)-1]='x'

p1Turn=not p1Turn

else:

print("p2>>")

a[int(s)-1]='o'

p1Turn=not p1Turn

**#using for loop giving the winning conditions**

for d in(0,3,6):

if(a[d]==a[d+1] and a[d]==a[d+2]):

print("bye.....bye")

exit()

for d in range(3):

if(a[d]==a[d+3] and a[d]==a[d+6]):

print("bye.....bye")

exit()

print("bye.....bye")

exit()

if(a[2]==a[4] and a[2]==a[6]):

print("bye.....bye")

exit()

else:

print("invalid position")

continue

**output:**

**2.#write a program to send mail from one mail id to other**

**#importing required libraries(smtplib,getpass)**

import smtplib

import getpass

**#intake email id and password of the sender and id of receiver**

myemail=input("mail id:")

pwd=getpass.getpass()

remail=input("recever mail id:")

**#craete smpt session**

s=smtplib.SMTP('smpt.gmail.com',587)

**#start TLS for security**

s.starttls()

**#authentication**

s.login(myemail,pwd)

**#message to be sent**

msg="hi hw r u"

**#sending the mail**

s.sendmail(myemail,remail,msg)

**#terminating the session**

s.quit()

**output:**

**3.write a program to click a picture using camera and raspberry pi**

**#import os**

import os

**#assign initial value of no.of pics**

n=1

**#using while loop click 10 pics**

while(n<=10):

os.system("fswebcam -F 4 --fps 20 -r 800\*600 /home/pi/rasp/"+str(n)+".jpeg")

print("nyc pic")

n=n+1

exit()

**output:**

**4.write a program to detect the motion using sensor and click picture**

**#import RPi.GPIO,OS,time**

import RPi.GPIO as GPIO

import os

import time

GPIO.setmode(GPIO.BCM)

pirPin=6

GPIO.setup(pirPin, GPIO.IN)

**#initialize number of pic and time gap between each pic and using while loop click the pictures everytime it sences the motion**

counter=1

time.sleep(4)

while(counter<=4):

if(GPIO.input(pirPin)):

print("motion detected!!!")

os.system("fswebcam -F 4 --fps 20 -r 800\*600 /home/pi/rasp/"+str(counter)+".jpeg")

print("nyc pic")

time.sleep(1)

counter=counter+1

print("testing")

exit()

**output:**