TONK 1-12. Talk 12: Stimulate Gaming corrects wing pygamo. Ain: To & Provide Gaming concepts wing Prigame. Broplew 1: Mette a bathou backow to anote or profe a enake crame viling Fygame package. HIGOSHAW: 1. Import Pagame package and RHallse it. 2. Define thewindow size and title. 3. create a snake class, which profraises the foot postion coloriard movement. U. Create aftost class which Enotalised the truit foil-- tron and color. 5. create a function to check it the snake collides with the fruth and increase the score. 6, create a function to check ? I the snake collides. with the window and end the game. 1. create atouction to update the snake polishen. based on the user input. 8 execute a foretion to update the game display and draw the Snake and fruit. of create a game loop to continually opdate the game. Lisplay, snake position, and check for collisions. 10. End the game of the wer gupty or the snake college with the window. Program. # impating libraries. import Agame. import time. subort random snake -speed/=15. # window xize, w9ndow \$\$ = 120. window -> = yeo. I defining colours. plack = pygame .colox(0,0,0) white = pygame, color (522) 522'522) sed = pygame. color(255,10,0) elseen = bidame . (0/0x (0152210) blue = pygame. color (0,0,255) # initializing pygame. Maame . but () worked some offelight # Pygame . d & play, set\_ capton ('the Ks for Greek Snakes).

2-elv/E1-2 doo antition of the control of the contr Score D. Some of the same of the Short for the solution of the Ywhen have dur Allow which solono - At 49 deeds of proposed to solone SIND OUT SUPPONS DANS FRENT 029/11/00 do 12 out 19 2/00/10 of Northwork of 2/1007, The first of the country MOH WAS END ONT STORGUST WHENCED. STRONG tuggitale on No her to be the supposed states of works of a prince POST IN SHOULD SHIFT OUR Laro plana Pt non or or or or the week to sale as 2007/1/200 hat alcorded force of Harriot so transition stone of rostrog row state, ence of the End with 100 = N+ + Ha 10/19) Library 1 portains 3 MOP 2 -1 X 35 The state of the s

```
game -windows=
 bAdama - 40 bpaniset - cablian. (, piecke perpiceke zucka)
 game - window =
 Py Jame. dis play. set = mode ((corndow-x, window->1)
# FPS (trames per second) controller.
   fPs = Pygame. time cooker)
# defining snake default position,
  Shake -position = [100 150]
+ defining first ublacks of crake body.
    snake -body = [[clookso],
           100,507
           [08]
           [70 ,507]
# fourt position.
  fruit-POLTHON
   frost-posetion = [random randrange (1, twindow-X//(00))10
               random. randrange (1 (window->4/16))*10]
   # Growe over condition.
     et snake - Position [v] <0 or
   Snake - position (0) > Landow - x -10:
          game-over ()
     of snake - POLPXion [] LOOK
   Snake - POLPHON (1) > whater -> -10:
           game- over
 It touching the snake body
   for black in snake - body[1]
    Pf snake - Position (0)== block (0) and.
Snake - Position [i] == black [i]:
         game-over()
     Tis blanchod scare continoonsph
     show- scare (1, white 1, time ven sound 50)
      # Retrest game weer.
         Pygame. display updatel)
     # frame per Second petresh Rate.
      tps. tack (snake-speed)
```

broplans: muse a bathon brodum to genslob a chess boosed using pygame Algorithm:

- 1. Import Agame and initialize it.
- 2. Set screen Size and title.
- 3. Detine colors for the board and pieces Define a function to draw the board by looping over rows and colomns and drowing spoons of different COlors.
- 4. Define a function to draw the pieces on the board by loading images for each prece and Placing them on the corresponding square.
- S. befine the initeal state of the board as all. et 11812 containing the Hecer.
- 6. Draw the board and places on the screen.
- 7. Stant the game loop.

## Proporti

impost Agame.

+ Enitealise FAGOUNE, 1230WE : 645+1)

THE SET SCOREN Size and talle

Scaren - 2,5x = (eno , eno) BURGAN -

Programe diploy: Set-mode (screen - 2:50) Pygame displayiset- appendiches board

# Define colons. black = (0,0,0)

white (=1255, 1255, 1255)

brown = (153,76,0)

# Define forction to draw the board.

det Sous-board !!

for son & rande(8).

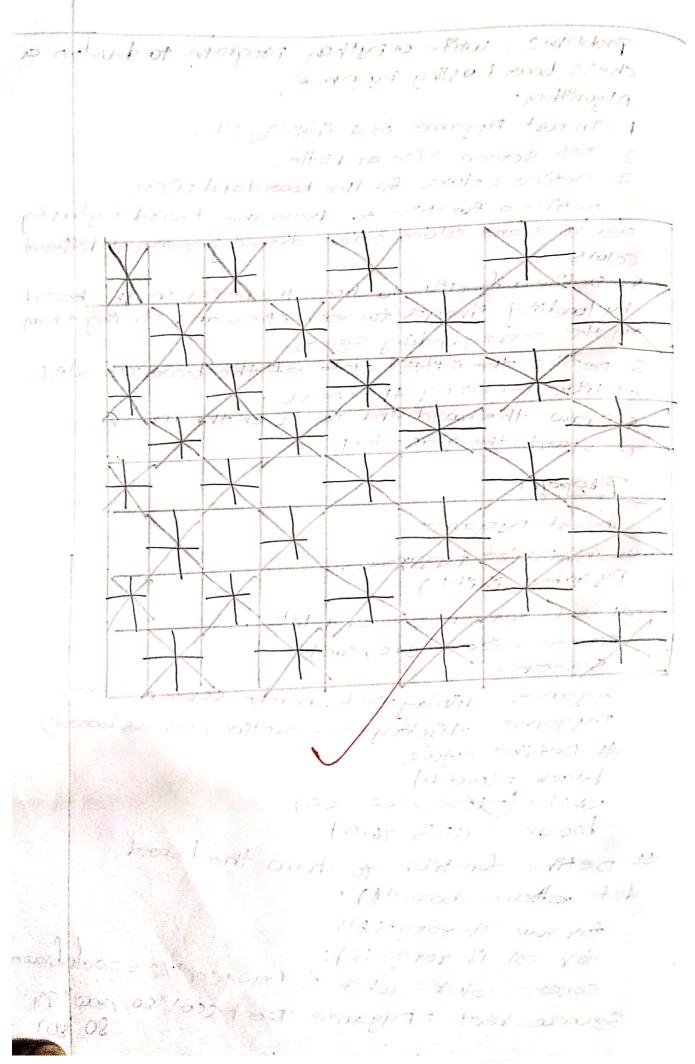
for col 12 roude (8); 89/2000 - color = white it (800+(01)1/2 = =0elisbrason

Server-rect = badding . Beot (co1,80 1800)

Pigame draw rect (screen (square-ido) 5200010-80ct)

It is etime forction to draw the pieces. det draw - Paces (board):

Piece-magg= }



```
181:
 bridame, words . load ( , buradel 1200k · bud,) ,
 Programe . image . load ("image ( Knight . Fing');
 Pugame . I'mage load ( 'images | bighols. prg').
 Pygamo, image . load ('imagy/queen. Png).
  Pygane inage load l'inage pown. Prig')
         for now Prrange(8):
          for col it range (8):
           Piece = boosed ( tow 7 [coi]
           Pf Piece 1 = !!
         Diece - Luade = Diece - Luader [Diece]
            Diece - rect = 12 game pect (col 80, 100 80 808)
         Screen. With (place - image prace - vect).
 # stant gameloop.
     while true:
    for event in Pygame. eventiget():
        of event. type == pygame. QUIT:
          Pygame. Evitt)
          20941)
   Pygamo. de play . update ()
Dewit! - Thus the Program to be propriet is executed.

and Verified successfully.
                              EM NO MANCE (5)
                               KULTAND ANALYSIS (5)
                                   TH DATE
```