Tax 12: Simulat Gamming concepts leving Pygame.

Aim: To simulat Gaming Concept using pregame

brodoust course or broken brodon to croop or snock down using pregame package,

Conditions;

1. set the window site

2. Create a state

3. Have the stake to move in-Redirection was left it ight, down and up key the preved

4. When the snake hip the fair. Inchose the score by 10

5. If the brake hits the window. Game over.

Algorithms

- 1. Smport Prgam Pakage and Initializate.
- 2 Define the window gize and title
- 3. Great a stake clay which initialized the stake position

Colour, and mo vernet

- 4. creata fait clan which fritializes the fewit besition and Coloa.
- S. Create a function to charle of the snala collids with the window or end the game
- 6. Create a function to updat the game display and allow the snake and fruit
- * . Creat a gam loop to continously update the game display, Stake position and chock for collisions
- B. and the game it the server quits or the some collicles with the window.

program: import pygare import time import random snate - gleed = 15 window , K = 420 window - 4 = 480 black = 149am. Colour (0,0,0) whik z programe. colour (255,257750) red = Pygamo. Colous (255,014) agreer = 1492m. Colour (0,255,19) blue = ergame. Colocu (0,0,255) Progre diplor, set-captoon ('Green for Gass snakes') gare _ window = lygamo . display . set_ mode (window - x , window - y)) fis = pygamo. time CbCres() 3 ma 10 - body = [[100,10]], [70,50], [80,50], [70,50]) fint-Position = [rendem. randrage (1, lwindow-x 10))*10, rondom, rendering [1,[coldos_y/10)*10] fruit - space = True. direction = PEGHE! Charge to - dire ofin Score =0 def show - score (choice, colour, font, size): glor fort = 1 ygame fort. 545 fort (fort, 5130) Score-scuper = Score - fort - reder (4's core; + Str (score), The, (doca) Store reet = score = Scyloce . get -red() game = over (): my-fort-pygam. ford. bys fort (time new roman), 50) game _ over _ rest = game _ over _ super = get _ rest() game - over - red midtop = (window - x/2, windor : y/k) game. wirdow, 6/Ht (game-over-surface, gam, over-vect) prgame . display . flip() fim. Sleep(3) Prgandiplor fliply

```
time. Sectal
or game qu'()
quitc)
While true:
 for overin Pygamo, everige():
   if eventype => program. May Down:
     if event. Key == p ygam. K_UP:
       Charge - to = Upl
     it eventicen - - Pugame. K. 16ft
         Charge to 2 16F7
     if event by = slygam = k-light!
         Charge to = 182ane1
 grate - position (1) = extruit - losition[];
     501 8 4 510
         fuit - SPOWA SFORM
     else:
        snall - body . PODC)
 if not privit, main
     fruit - losition = (rodom . road range (, los Indoo- x/(0))
                random, randrage (1,1 window, 4/100)+ (0)
 it snake - losition (0) LO or snake- position (1) > windows -10:
   game over []
 for block in brace body [1:7:
   if snake = Position to ] = > Lock to ] and snake - position() = 2
 block [i]:
     game ovul)
     Show_Score (1, white, times new roman', 20)
     lygame distay , usdoto
     fls. tick (snote = sleed).
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problems: write a lython program to develop a ches board wirs pygame Algorithm: 1. Im Part Pygamo and initiality it e let screen site and title Define Colour forthe board and pieces Define a function to about the likes on the board by locates images for each piece and placing them on the corresponding stude 5. Define the initialite stat of the book of an alist of list Costaining the piccos 6. Draw the board on & lieu on the screen 4. Start the gameloop Program: import pygame Pygame. init() screen-size= (640,649 screen = pygame. display. Ser-mode (screen-site Program adisplay. 3et. caption ('Chess Board') black = (0,0,0) Whik 5 (225, 225) brown = (153, 76,0) dy draw - board (1: for row in rong (1): for col in rang (8): Squar - Cdan = white it (root co) it = 20 else brun. Juan - rest = Pygam. Put (col+80, rax +80, 80, 40) lygame. draw rect. (Green, squan - Colour, Square-root) Oly abow- Pieces (board): Place - image = d. I = lygano imagload ("imag loop nos ")

```
by rowin rough (8):
   for co 1 in range (8):
     Plece = board [row] [col]
      it Plete ! = 1.0/1
     Piece - image = Piece - image [Pieces]
    Piece - rect = Pygame. Lect (co1 * 80, nous 80, 80,80)
     Green. Hat (Place_imag , Piece_rest)
board - [
   [v', 'o', '6', 2' ; k' , 'o', 'w],
     [8,6,6,6,6,6,6]
     [~, ~, ~, ~, ~, ~, ~, ~, ~]
      (",",",", ", ", ", ","),
       ('e', e', e', e', e', e', e'],
      ['R', 'N', 'B', 'O', 'F', 'B', 'N', 'C']
ahow bound ()
   draw - lieces (bound)
   whole True:
     for over in Pygame. and got ?
       i'f luct type = = Pygano. QuI q:
        Pygam. quit()
        qui +()
   Py game. display · Updall)
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Checkering

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VIVA VOCE (5)	
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TOTAL (20) SIGN WITH DATE	115
SIGN WITH	

Result: Thus the program so pygam is executed and verified successfuller