```
import numpy as np
              import pygame
              import sys
              import math
             pygame 2.1.2 (SDL 2.0.18, Python 3.10.0)
             Hello from the pygame community. https://www.pygame.org/contribute.html
 In [2]:
              PINK=(0,0,255)
              GREEN=(0,0,0)
              ORANGE = (255, 0, 0)
              PURPLE = (255, 255, 0)
              ROW_NO=6
              COLUMN_NO =7
 In [3]:
              def make_board():
                    board = np.zeros((ROW_NO,COLUMN_NO))
                    return board
              def drop_piece(board, row, col, piece):
                    board[row][col] = piece
 In [5]:
              def accurate_location(board, col):
                    return board[ROW_NO-1][col] == 0
              def get_next_open_row(board, col):
                    for r in range(ROW_NO):
                          if board[r][col] == 0:
                                return r
 In [7]:
              def print_board(board):
                    print(np.flip(board, 0))
 In [8]:
               def winning_move(board, piece):
                    # Need to check the horizontal location to decide the winner of the game
                    for c in range(COLUMN_NO-3):
                          for r in range(ROW_NO):
                                if board[r][c] == piece and board[r][c+1] == piece and board[r][c+2] == piece and board[r][c+3] == piece:
                                      return True
                    # Need to check the positively sloped diaganols to decide the game winner
                    for c in range(COLUMN_COUNT-3):
                          for r in range(ROW_COUNT-3):
                                if board[r][c] == piece and board[r+1][c+1] == piece and board[r+2][c+2] == piece and board[r+3][c+3] == piece:
                                      return True
                     # Need to check the vertical location to decide the winner of the game
                    for c in range(COLUMN_NO):
                          for r in range(ROW_NO-3):
                                if board[r][c] == piece and board[r+1][c] == piece and board[r+2][c] == piece and board[r+3][c] == piece:
                                      return True
                    # Need to check the Negatively sloped diaganols to decide the game winner
                    for c in range(COLUMN_COUNT-3):
                          for r in range(3, ROW_COUNT):
                                if board[r][c] == piece and board[r-1][c+1] == piece and board[r-2][c+2] == piece and board[r-3][c+3] == piece:
                                      return True
               def draw_board(board):
                    for c in range(COLUMN_NO):
                          for r in range(ROW_NO):
                                pygame.draw.rect(screen, PINK, (c*SQUARESIZE, r*SQUARESIZE+SQUARESIZE, SQUARESIZE, SQUARESIZE))
                                pygame.draw.circle(screen, GREEN, (int(c*SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+SQUARESIZE+S
                    for c in range(COLUMN_NO):
                          for r in range(ROW_NO):
                                if board[r][c] == 1:
                                      pygame.draw.circle(screen, ORANGE, (int(c*SQUARESIZE+SQUARESIZE/2), height-int(r*SQUARESIZE+SQUARESIZE/2)), RADIUS)
                                elif board[r][c] == 2:
                                      pygame.draw.circle(screen, PURPLE, (int(c*SQUARESIZE+SQUARESIZE/2), height-int(r*SQUARESIZE+SQUARESIZE/2)), RADIUS)
                    pygame.display.update()
In [10]:
              board = make_board()
              print_board(board)
              game_over = False
               turn = 0
             [[0. 0. 0. 0. 0. 0. 0.]
               [0. 0. 0. 0. 0. 0. 0.]
               [0. 0. 0. 0. 0. 0. 0.]
               [0. \ 0. \ 0. \ 0. \ 0. \ 0.]
               [0. \ 0. \ 0. \ 0. \ 0. \ 0.]
               [0. 0. 0. 0. 0. 0. 0.]]
In [11]:
              # In this we initalise pygame
              pygame.init()
              # defiine our screen size
              SQUARESIZE = 200
              # Defined the width and height of thre board
              width = COLUMN_NO * SQUARESIZE
              height = (ROW_NO+1) * SQUARESIZE
              size = (width, height)
              RADIUS = int(SQUARESIZE/2 - 5)
              screen = pygame.display.set_mode(size)
In [12]:
              # Calling function is used to draw_board again
              draw_board(board)
              pygame.display.update()
              myfont = pygame.font.SysFont("monospace", 75)
 In [ ]:
               while not game_over:
                    for event in pygame.event.get():
                          if event.type == pygame.QUIT:
                                sys.exit()
                          if event.type == pygame.MOUSEMOTION:
                                pygame.draw.rect(screen, GREEN, (0,0, width, SQUARESIZE))
                                posx = event.pos[0]
                                if turn == 0:
                                      pygame.draw.circle(screen, ORANGE, (posx, int(SQUARESIZE/2)), RADIUS)
                                else:
                                      pygame.draw.circle(screen, PURPLE, (posx, int(SQUARESIZE/2)), RADIUS)
                          pygame.display.update()
               if event.type == pygame.MOUSEBUTTONDOWN:
                                pygame.draw.rect(screen, GREEN, (0,0, width, SQUARESIZE))
                                # print(event.pos)
                                 # Player 1 need to give input
                                if turn == 0:
                                      posx = event.pos[0]
                                      col = int(math.floor(posx/SQUARESIZE))
                                      if accurate_location(board, col):
                                            row = get_next_open_row(board, col)
                                            drop_piece(board, row, col, 1)
                                            if winning_move(board, 1):
                                                  label = myfont.render("Player 1 wins!!", 1, ORANGE)
                                                  screen.blit(label, (40,10))
                                                  game_over = True
                # Player 2 needs to give input
                                else:
                                      posx = event.pos[0]
                                      col = int(math.floor(posx/SQUARESIZE))
                                      if accurate_location(board, col):
                                            row = get_next_open_row(board, col)
                                            drop_piece(board, row, col, 2)
                                            if winning_move(board, 2):
                                                  label = myfont.render("Player 2 wins!!", 1, PURPLE)
                                                  screen.blit(label, (40,10))
                                                  game_over = True
                                 print_board(board)
                                draw_board(board)
                                turn += 1
                                turn = turn % 2
```

if game_over:

pygame.time.wait(3000)