```
1.Implement Tic-tac-toe game
import random
board = [' ' for _ in range(9)]
def print_board():
  row1 = '| {} | {} | {} | '.format(board[0], board[1], board[2])
  row2 = '| {} | {} | {} | '.format(board[3], board[4], board[5])
  row3 = '| {} | {} | {} | '.format(board[6], board[7], board[8])
  print()
  print(row1)
  print(row2)
  print(row3)
  print()
def has_won(player):
  win_conditions = [(0, 1, 2), (3, 4, 5), (6, 7, 8), (0, 3, 6), (1, 4, 7), (2, 5, 8), (0, 4, 8), (2, 4, 6)]
  for condition in win_conditions:
    if board[condition[0]] == board[condition[1]] == board[condition[2]] == player:
       return True
  return False
def bot_move():
  for i in range(9):
    if board[i] == ' ':
       board[i] = 'O'
      if has_won('O'):
         return
       board[i] = ' '
  for i in range(9):
    if board[i] == ' ':
       board[i] = 'X'
       if has_won('X'):
         board[i] = 'O'
         return
```

```
board[i] = ' '
  possible_moves = [i for i, x in enumerate(board) if x == ' ']
  if possible_moves:
    move = random.choice(possible_moves)
    board[move] = 'O'
  else:
    print("It's a draw!")
    exit()
def main():
  current_player = 'X'
  while True:
    print_board()
    if current_player == 'X':
       move = input("Player X, enter your move (1-9): ")
      if board[int(move) - 1] != ' ':
         print("Invalid move, try again.")
         continue
       board[int(move) - 1] = current_player
    else:
      bot_move()
       print("Bot O has made its move.")
    if has_won(current_player):
       print_board()
      if current_player == 'X':
         print("Player X wins! Congratulations!")
      else:
         print("Bot O wins! Better luck next time!")
       break
    if ' 'not in board:
       print_board()
       print("It's a draw!")
```

current\_player = 'O' if current\_player == 'X' else 'X'

Bot O has made its move.

Player X, enter your move (1-9): 4

| X | 0 | | | X | | |

Bot O has made its move.

| X | O | | | X | | | | O | | |

Player X, enter your move (1-9): 5

| X | 0 | | | X | X | | | 0 | | |

Bot O has made its move.

Player X, enter your move (1-9): 9

Player X wins! Congratulations!