Lab-1 * program for Tie- Tac-Toe. board = <11. " , 2: ', 8: ', 411 1,511 1,611 1, 751,811,9111 det print-board (board): print (board[1]+11'+ board[2]+'1'+ board[8]) print (1-4-4-1) print (board[4]+ "1" + bound[5]+ "1" + board[6]) print (1-+-+-1) print (board (#)+ 11+ board [8]+ 11+ board [9]) priot ('In') det space-free (poi): return board Cpor] == ' ' -1. 3 Al 128 del checkwist: Win-Lorditions = () = () = () + ((1,2,3), (4,5,6),(7,8,9), (1,4,7) (2,5,8), (3,6,9), (1,5,9), (3,5,4) 7 for a,b, c in win -conditions: if board[o] == board(b] == board(e]!= ' ': return True return false det check-drow(): return all(board[key] != ' for key in board).

```
insert .. letter (letter, position):
         il space free (pontion):
              board [position] = letter
              print-board (board).
              it check - win ():
                  it letter E= 'X':
                      print (Botwinsi)
                   else:
print ('You win!):
                 return True
            elit check-draw():
                 print ('Drawl')
                  return True
             return false
         else:
            print ('Position taken, please pick of a different position')
            position = int (input ( Enter new position: ))
            return injert letter (letter, position)
player = 10°
bot = 'x'
 det player, move ():
       position = int (input ('Enter position for 0:")).
       return insent-letter (player, position)
 det comp-morel):
       best- score = -1000
        best-move = 0
```

| board Ckey | e = 11/11/C |
|---------------------------------------|-------------------------------------|
| - return best-score | j. i n |
| | |
| while True: | |
| print board (board) | 44 |
| if cheek-draw () or che | de wiol): |
| break | |
| | Company of the second of the second |
| it check-draw () or ch | ech-wint): |
| | |
| player-move(). | |
| Output: | tod - 1724 . 4 2 1 1114 |
| | |
| Enter position for 0:5 | 7. 1. 1. |
| × / / | |
| -+-+- | |
| 101 | |
| 1 1 | |
| · · · · · · · · · · · · · · · · · · · | |
| tater position for 0:3 | e e eggindan ji k |
| XIXIO | CAT STANKE DE LE PARTE |
| 101 | · Path wat |
| | |
| -+(-+-000) | |
| F to a large | |
| Enter position for 0: | 7 |
| XIXYO | 'o N- |
| -+-+- | |
| x 1 0 1 | |
| 011 | |