```
File
    Edit
                Run Options Window Help
        Format
N = 9
def printing (arr):
    for i in range (N):
        for j in range (N):
            print(arr[i][j], end = " ")
        print()
def isSafe(grid, row, col, num):
    for x in range (9):
        if grid[row][x] == num:
             return False
    for x in range (9):
        if grid[x][col] == num:
             return False
    startRow = row - row % 3
    startCol = col - col % 3
    for i in range (3):
         for j in range(3):
             if grid[i + startRow][j + startCol] == num:
                 return False
    return True
def solveSudoku(grid, row, col):
    if (row == N - 1 \text{ and } col == N):
         return True
     if col == N:
         row += 1
         col = 0
     if grid[row][col] > 0:
         return solveSudoku(grid, row, col + 1)
     for num in range(1, N + 1, 1):
         if isSafe(grid, row, col, num):
             grid[row][col] = num
             if solveSudoku(grid, row, col + 1):
         grid[row][col] = 0
 grid = [[3, 0, 6, 5, 0, 8, 4, 0, 0],
             2, 0, 0, 0, 0, 0,
         [5,
         [0, 8, 7, 0,
                      0, 0, 0,
             0, 3, 0,
                      1, 0, 0,
         [9, 0, 0, 8, 6, 3, 0,
         [0, 5, 0, 0, 9, 0, 6, 0, 0],
            3, 0, 0, 0, 0, 2,
            0, 0, 0, 0, 0, 0, 7,
         [0,
            0, 5, 2, 0, 6, 3,
```

7. 1091am3/Fython/Python311/hdlc.py (3.11.4)

```
if (solveSudoku(grid, 0, 0)):
   printing (grid)
   print ("no solution exists ")
```

```
Python 3.11.4 (tags/v3.11.4:d2340ef, Ju
Type "help", "copyright", "credits" or
 16578492
5 2 9 1 3 4 7
   7629531
2634159
    8 6 3 1 2 5
 5 1 7 9 2 6 4 3
   8 9 4 7 2 5 6
6 9 2 3 5 1 8 7
7 4 5 2 8 6 3 1
```