

Sudoku Generator and Solver

Introduction:

This program can generate Sudoku puzzles with varying level of difficulty. The difficulty is set by the user. This program can generate any number of Sudoku puzzles. The program also correspondingly solves the generated Sudoku puzzle.

How to use it:

Run the sudoku.py file. The program will prompt for difficulty level. Enter 1,2 or 3 for easy, medium and hard levels respectively. The program then displays and unsolved Sudoku puzzle and the corresponding solution.

Sample Results:

Enter difficulty level:

- 1.Easy
- 2.Medium
- 3.Hard

Enter your choice: 1

		3			8			6				
1		8		6					3	7		
		6		5			3		8	1		

			1		7		2		9		3	
	3						5			7	1	8
	4							8		9	2	5

8					9			5		1	7	
9		4		2		3		7		8	5	6
3		5				6		1				2

The corresponding solution is

7	5	3		1	8	2		6	4	9		
1	2	8		6	9	4		5	3	7		
4	9	6		5	7	3		2	8	1		

5	8	1		7	2	9		3	6	4		
2	3	9		4	5	6		7	1	8		
6	4	7		3	1	8		9	2	5		

8	6	2		9	4	5		1	7	3		
9	1	4		2	3	7		8	5	6		
3	7	5		8	6	1		4	9	2		

Enter difficulty level:

- 1.Easy
- 2.Medium
- 3.Hard

Enter your choice: 3

		4			2				1			5
			2			4			7		6	
		7						8				

						9		6				
							7					2
2						1			4			

			1		7		4			3	5	
5	9											
2												1

The corresponding solution is

6	4	8		2	9	7		1	3	5		
9	1	2		4	5	3		7	6	8		
3	7	5		6	1	8		2	9	4		

4	3	7		9	6	2		5	8	1		
1	8	9		3	7	5		4	2	6		
2	5	6		1	8	4		9	7	3		

8	6	1		7	4	9		3	5	2		
5	9	3		8	2	1		6	4	7		
7	2	4		5	3	6		8	1	9		