Assignment No.2  
Sudoku Puzzles

Part I (6 pts = 1+1+4)  
1) Write a definition of the Sudoku puzzle.  
2) Explain the notation and terminology for specific parts of the Sudoku puzzle (rows, columns…).  
3) Solve the puzzle below. Explain each step. Give an argument why is each step valid.  
   Even if you are not able to finish the puzzle completely, explain your steps up to the point you got stuck.

```
  1 5   |   3 9
  ------+------
  8 3   |   6 1
  2     |   7 5
  ------+------
  3 4   |  9 1 5 2
  ------+------
            |   3 6
            |   4
  5 4   |  1 9
  ------+------
  1 3   |   2 8
```

(35)

Part II (5 pts = 2+2)  
1) Explain the way to create Sudoku puzzles.  
2) Find as many as possible different ways to create new Sudoku puzzles from a given one. For example, if the Sudoku puzzle above was the one given, by replacing all 1’s with 2’s and vice versa we would obtained a new Sudoku puzzle.