

## Write a Python Program to Remove punctuations from the given String

### Program:

```
goal_state = [[1, 2, 3],
               [4, 5, 6],
               [7, 8, 0]]
def print_puzzle(puzzle):
    for row in puzzle:
        print(" ".join(str(x) if x != 0 else "_" for x in row))
    print()
def find_blank(puzzle):
    for i in range(3):
        for j in range(3):
            if puzzle[i][j] == 0:
                return i, j
def move(puzzle, direction):
    x, y = find_blank(puzzle)
    if direction == "up" and x > 0:
        puzzle[x][y], puzzle[x-1][y] = puzzle[x-1][y], puzzle[x][y]
    elif direction == "down" and x < 2:
        puzzle[x][y], puzzle[x+1][y] = puzzle[x+1][y], puzzle[x][y]
    elif direction == "left" and y > 0:
        puzzle[x][y], puzzle[x][y-1] = puzzle[x][y-1], puzzle[x][y]
    elif direction == "right" and y < 2:
        puzzle[x][y], puzzle[x][y+1] = puzzle[x][y+1], puzzle[x][y]
    else:
        print("Invalid move!")
puzzle = [[1, 2, 3],
           [4, 0, 6],
           [7, 5, 8]]
print("Welcome to the 8 Puzzle Game!")
print("Use commands: up, down, left, right")
print("Goal is:")
print_puzzle(goal_state)
while puzzle != goal_state:
    print("Current puzzle:")
    print_puzzle(puzzle)
    move_dir = input("Enter move (up/down/left/right): ").lower()
    move(puzzle, move_dir)
print("Congratulations! You solved the puzzle!")
```

### Output:

```
File Edit Shell Debug Options Window Help
Python 3.13.3 (tags/v3.13.3:6280bb5, Apr  8 2025, 14:47:33) [MSC v.1
AMD64] on win32
Enter "help" below or click "Help" above for more information.
>>>
= RESTART: C:\Users\ROJAYADAV\AppData\Local\Programs\Python\Python31
Welcome to the 8 Puzzle Game!
Use commands: up, down, left, right
Goal is:
1 2 3
4 5 6
7 8 _

Current puzzle:
1 2 3
4 5 6
7 5 8

Enter move (up/down/left/right): down
Current puzzle:
1 2 3
4 5 6
7 _ 8

Enter move (up/down/left/right): right
Congratulations! You solved the puzzle!
>>> |
```