# **Snakes And Ladders**

The aim of this project is to play text-based snake and ladder game in the terminal However, it is a fun thing to do for a beginner in order to learn how to use multiple concepts in your program.

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# **Technologies**

- Python: 3.8.2
- Flake8(for linting)

# Requirements

- Use of Random function
- Conditional Statements

# Setup

#### To run this project

- Clone the repo
- Install python
- Install flake8 library:
  - ➤ Pip install flake8
  - > Go to root file
  - ➤ Run python -m flake8 command and check for any errors
- Import all the library functions required

#### **Steps Involved**

#### Rules of the game

- > The board will have 100 cells numbered from 1 to 100.
- The game will have a six sided dice numbered from 1 to 6 and will always give a random number on rolling it.
- ➤ Each player has a piece which is initially kept outside the board (i.e.,at position0).
- > Each player rolls the dice when their turn comes.
- ➤ Based on the dice value, the player moves their piece forward that number of cells.
- > Ex: If the dice value is 5 and the piece is at position 21, the player will

- > put their piece at position 26 now (21+5).
- ➤ A player wins if it exactly reaches the position 100 and the game ends there.

# What happens in Game

#### Dices rolled in game

- 1- Display the welcome message
- 2- Collect the player's names
- 3- Until one of the player wins do the following
- 3.1- Roll the dice
- 3.2- Move the player forward for the value got on the dice roll.
- 3.3- If the player is on snake's head, move down to its tail
- 3.4- If the player is on ladder's bottom, take it to its top
- 3.5- else remain there and let the second player roll the dice

#### Output

When Game starts it ask to press enter to start the game as shown below

Players select to play game in modes as shown below

```
PLEASE Press 'ENTER' to start the game:
Choose your mode (Single player/Multiplayer)
Enter 'S' for sigle player and 'M' for multiplayer: m
PLEASE Enter how many players are playing: 2
Enter player 1 name: abcd
Enter player 2 name: xyz
Good Luck!

PLEASE Press 'ENTER' to start THE GAME.

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```

# Each players get chance to play the game

```
PLEASE Press 'ENTER' to start THE GAME.

Its abcd turn.
Press enter to Roll the DICE

abcd DICE Rolling....
abcd got 1

abcd is now on number 1

Its xyz turn.
Press enter to Roll the DICE

Kyz DICE Rolling....
Kyz got 2

There's a ladder! xyz climbed up.
Kyz is now on number 25

Its abcd turn.
Press enter to Roll the DICE
```