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

- \triangleright 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

- 1- Run maindrivercode.py
- 2- Here code is divided into files
- 2.1- When we run maindrivercode.py it calls remaining files
- 2.2- welcome massage
- 2.3- 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

xyz DICE Rolling....
xyz got 2

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

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