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# # Team Balancer Script

### ## Overview

This script is designed to balance sports teams based on player attributes. Players are categorized by their primary and secondary roles and distributed into two balanced teams.

### ## Requirements

- Python 3.6 or above

- `pandas` library

- `openpyxl` library (if saving results to Excel)

### ## Installation

1. Ensure Python 3.6 or above is installed on your system.

2. Install the required libraries:

```bash

pip install pandas openpyxl

Script Description

The script reads player data from a JSON string, processes the data to balance the teams, and outputs the results to the console and an optional Excel file.

Player Data

The player data includes the following attributes for each player:

Name: The name of the player.

Stamina, Dribbling, ShotPower, Passing, Accuracy, Defense: Various skill metrics for the player.

Playing: Whether the player is currently playing (true or false).

PrimaryRole: The primary role of the player (MID, DEF, GK, WS).

SecondaryRole: The secondary role of the player (MID, DEF, GK, WS).

How to Use

Replace the sample JSON data in the players\_json variable with your actual player data.

#### Run the script using Python:

python Team-Balance.py

The script will output the balanced teams to the console and save them to an Excel file named Team\_Distribution.xlsx (if the openpyxl library is installed).

#### Example Output

Green Team:

Chirag

Jaiswal

Nasiq

harsha

ketan

Sanjay

Sudeep

abhijit

Deepak

Orange Team:

Jithu

Dnyanesh

Amritpal

dheeraj

Vamshi

nuhu

Kartik

harsH

shailesh

Vishnu

### Customization

You can adjust the balancing logic by modifying the distribute\_players function and other parts of the script to suit your specific needs.

### Contributing

If you have any suggestions or improvements, feel free to submit a pull request or open an issue.