	1 Report		ng the assignment for review.								
	2. Jupyter Notebook/ SC										
ABC is a real-money online gaming company providing multiplayer games such as Ludo. An user can register as a player, deposit money in the platform and play games with other players on the platform.											
If he/she wins the game then they can withdraw the winning amount while the platform charges a nominal fee for the services.											
To retain players on the	platform, the comp	pany ABC gives loyalty points to their players based on their activ	ity on the platform.								
Loyalty points are calculated on the basis of the number of games played, deposits and withdrawal made on the platform by a particular player.											
The criteria to convert	number of games pla	ayed, deposits and withdrawal into points is given as below :									
Type of Action	Weightage per activity	Formulae eg.									
Deposit of money on the platform	0.01	0.01 * Deposit Amount 0.01 * (1000 RS Deposit) = 10 Points 0.005 * Withdrawal 0.005 * (500 Rs Withdrawal) = 2.5									
Withdrawal of money from the platform	0.005	0.005 * Withdrawal									
How many more times		= 0.001 * 2 = 0.002 points 0.001 * maximum of									
did a player do deposit than withdrawal	0.001	(#deposit - #windrawal) where number of deposit = 5 and number of withdrawal = 3									
Number of games played	0.2	0.2 *Number of Games Played 0.2 * (50 Total Games Played) = 10 Points									
	deposit) + (0.005 * V	Withdrawal amount) + (0.001 * (maximum of (#deposit - #withdr									
		its are anoted to an the players. Out of which the top 30 players a	are provided cash benefits.								
Part A - Calculating loy											
S1 from 12am to 12pm S2 from 12pm to 12am		hich the loyalty points are to be calculated:									
Based on the above information and the data provided answer the following questions: 1. Find Playerwise Loyalty points earned by Players in the following slots:- 2. a. D. Glothor Filot S1 3. Bith October Filot S2 5. Bith October Filot S1 5. Eith October Filot S2 6. Calculate overall loyalty points earned and rank players on the basis of loyalty points in the month of October. In case of tie, number of games played should be taken as the next criteria for ranking. 3. What is the average deposit amount? 4. What is the average deposit amount per user? 5. What is the average number of games played per user?											
Part B - How much bor	nus should be alloca	ited to leaderboard players?									
After calculating the lo	yalty points for the v	whole month find out which 50 players are at the top of the lead-	erboard. The company has allocated a pool of Rs 5000	00 to be given away as bonus money	to the loyal players.						
Now the company needs to determine how much bonus money should be given to the players.											
Should they base it on the amount of loyalty points? Should it be based on number of games? Or something else?											
That's for you to figure	out.										
Suggest a suitable way 1. Only top 50 ranked p		ed money keeping in mind the following points: bonus									
Part C											
Would you say the loyalty point formula is fair or unfair?											
Can you suggest any way to make the loyalty point formula more robust?											
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