Experience the adrenaline-packed world of professional bull riding (PBR), where the spotlight shines not only on the daring riders but also on the powerful bulls. In this worksheet, we'll dive into the data from the 2023 season of the Touring Pro Division to understand how points are achieved by bulls themselves.

1. Fit a logistic regression model where we want to predict the Avg BullScore that are greater than the mean `Avg BullScore` using orld champion average score, average Buckoff time, highest bull score and 45Pt rides.

A. Create new variable to implement this model and record the R-code below here.

B. Interpret the Coefficient of Highest BullScore predictor.

C. If the bull has a World champ average of 46, an average Buckoff time of 2.5, highest BullScore of 44.5, and has one over 45Pt ride, what would his probability of having an average bull score that is higher than mean avg score.

D. Check the overall efficiency of the model, are there any concerning outliers or influential points we should be concerned about? What would we hypothetically do to fix these issues?

2.