Below is the wrapper code that then allows you to select two teams and get the predicted winner

Win<-function(var1,var2){

attach(mydata)

myfirstmodel<-lm(sqrt(Wlratio)~R+ERA, data=mydata)

Wins=fitted.values(myfirstmodel)

comparisontable=cbind(teamID,Wins)

teamnames=c("Arizona Diamondbacks", "Atlanta Braves", "Baltimore Orioles", "Boston Red Sox", "Chicago White Sox", "Chicago Cubs", "Cincinnati Reds", "Cleveland Indians", "Colorado Rockies", "Detroit Tigers", "Houston Astros","Kansas City Royals","Los Angeles Angels", "Los Angeles Dodgers", "Miami Marlins", "Milwaukee Brewers", "Minnesota Twins", "New York Yankees","New York Mets", "Oakland Athletics", "Philadelphia Phillies","Pittsburgh Pirates", "San Diego Padres", "Seattle Mariners","San Francisco Giants","St. Louis Cardinals", "Tampa Bay Rays", "Texas Rangers", "Toronto Blue Jays", "Washington Nationals")

looktable1=cbind(teamnames, teamID)

for (i in 1:length(teamID)) if (var1==looktable1[i,1]) varone=comparisontable[i,2]

for (i in 1:length(teamID)) if (var2==looktable1[i,1]) vartwo=comparisontable[i,2]

detach(mydata)

if (varone>vartwo) print(paste(var1, "win!")) else if (vartwo>varone) print(paste(var2, "win!") ) else print("It is a tie!")}

Example of picking two teams:

Win("Pittsburgh Pirates","Los Angeles Dodgers")

[1] "Los Angeles Dodgers win!"

The program works by plugging the code above into R. Make sure the directory is changed to where the data is at. Then you plug in the code: Win("team1", "team2") and it outputs the predicted winner.

Text

Description automatically generated