

INSTRUCTIONS FOR USING THE PROGRAM

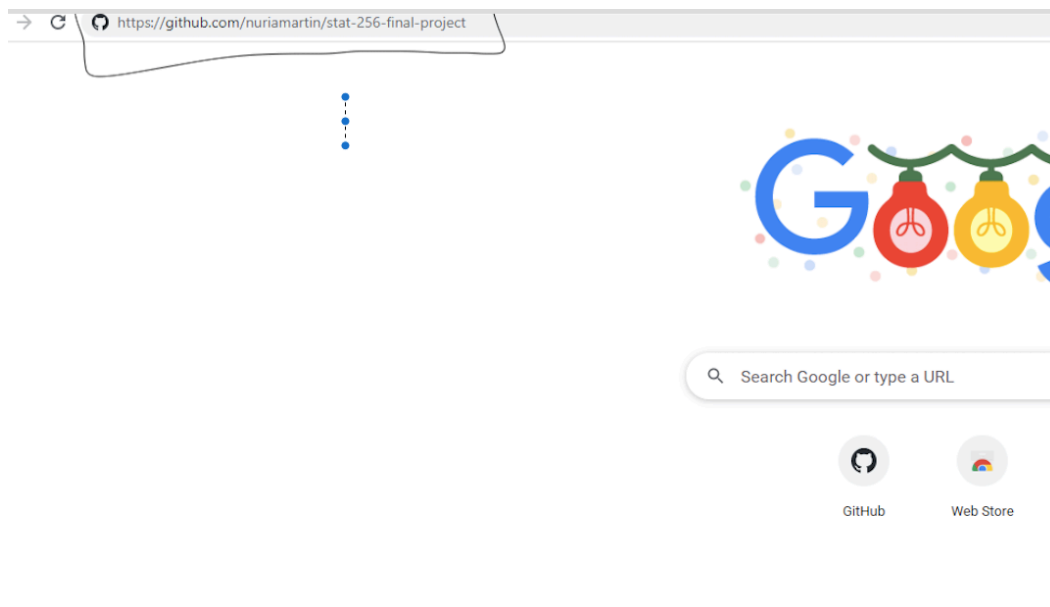
1. Before being able to run the program, you need to have R or R studio installed in your computer. If you do not, you can do so by copying and pasting the following links in your browser:

<https://www.r-project.org/> (To download R)

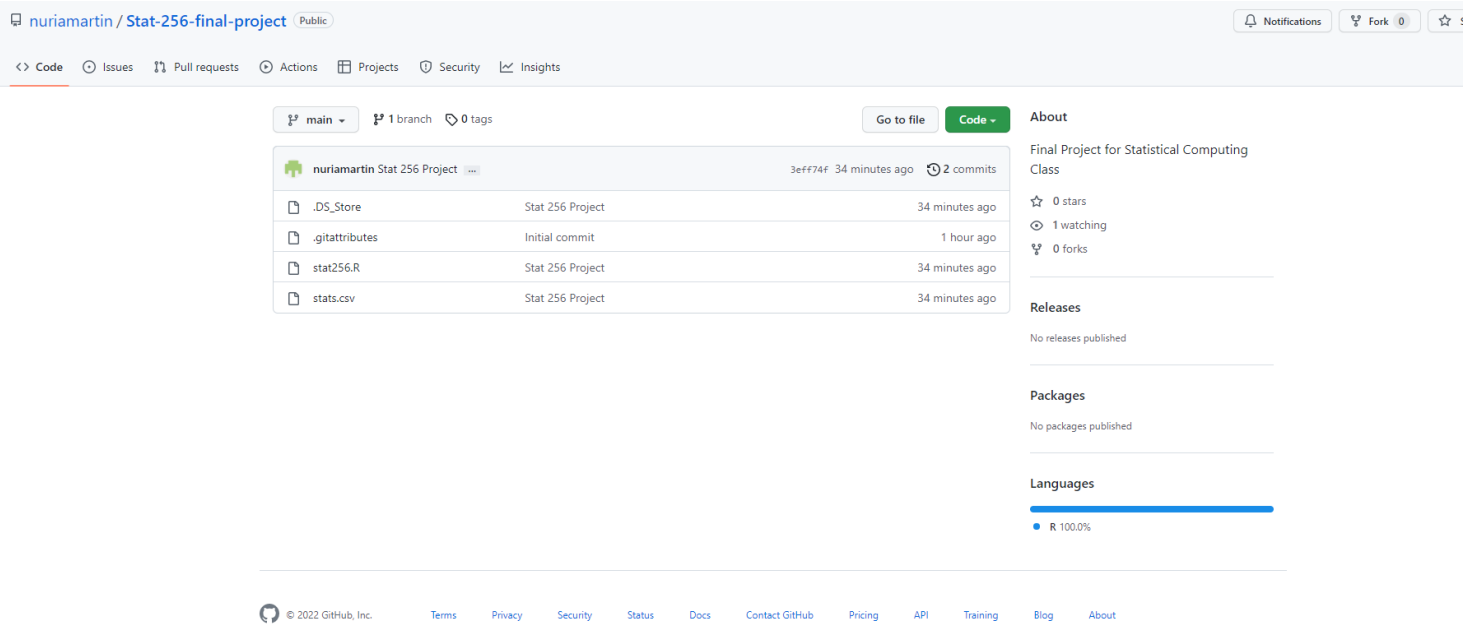
<https://posit.co/download/rstudio-desktop/> (To download R studio)

2. Once you have R installed in your computer, the next step is copying and pasting this link in your browser:

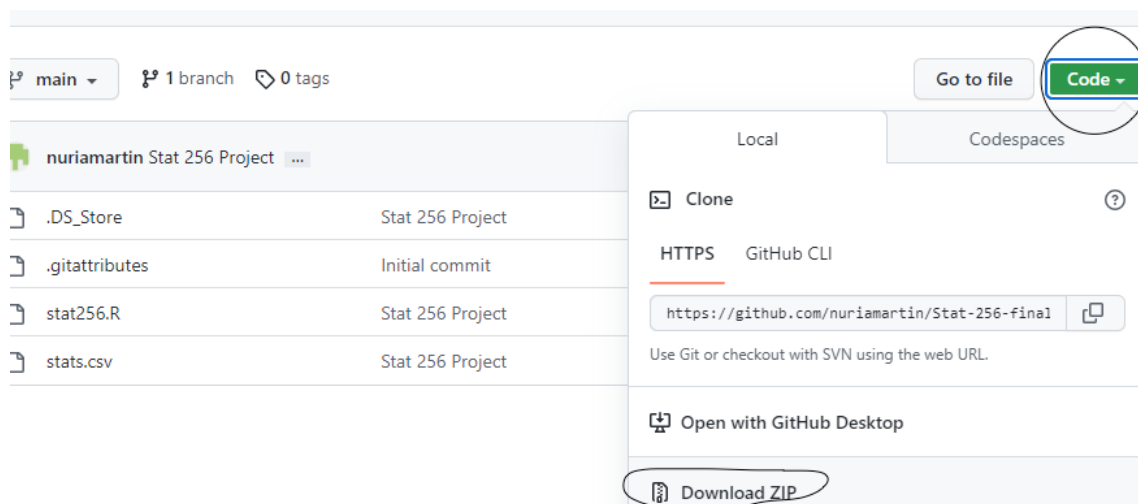
<https://github.com/nuriamartin/Stat-256-final-project>



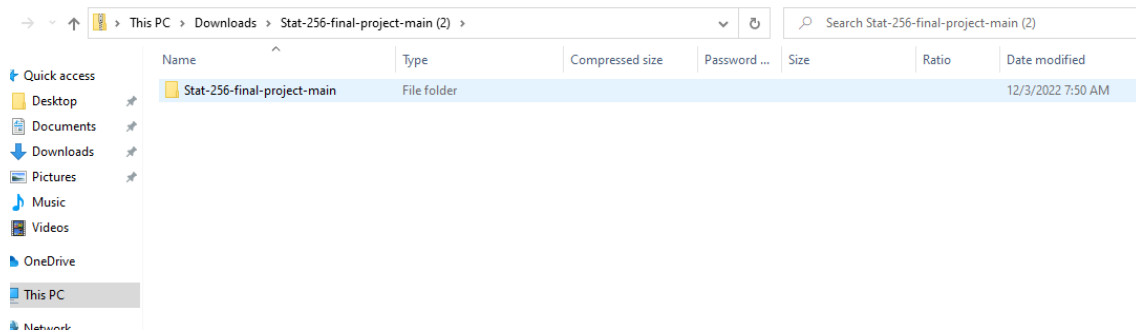
3. Once you have done this you should be able to see this in your computer:



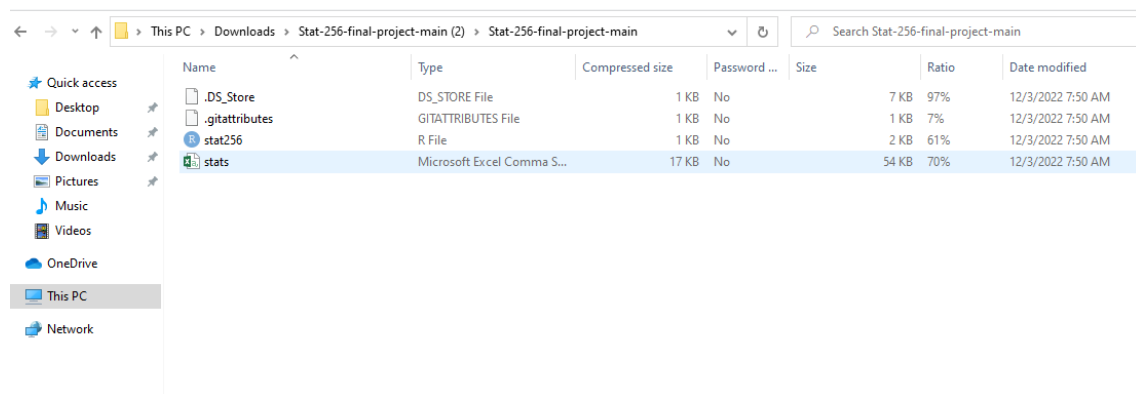
Now, click on the green button called “Code” on the top right corner, and then click “Download Zip”



Once the file is downloaded, click on the file named “Stat-256-final-project-main “ that you can see on the following screenshot:

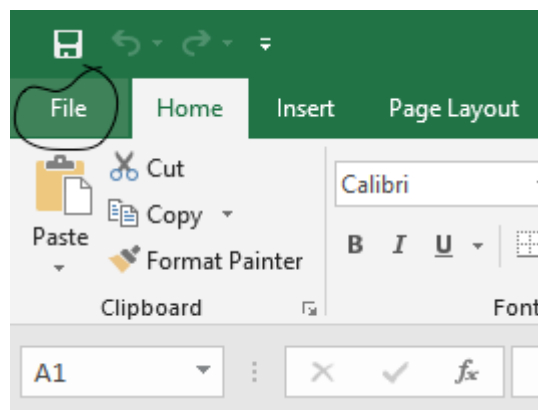


Once you have clicked on this file, the following will appear in your computer

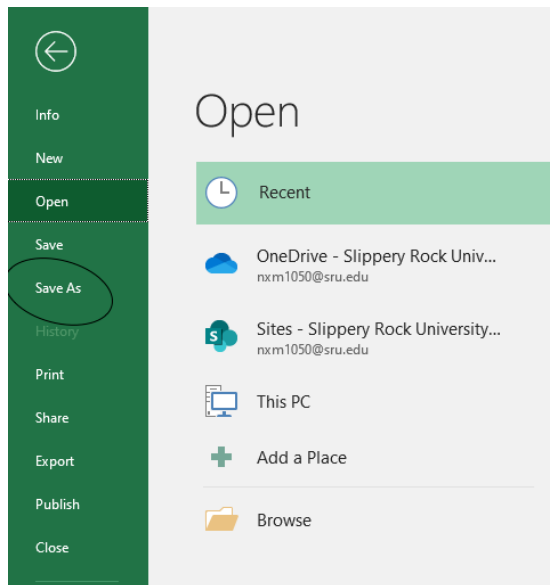


Click on the .csv file named “stats” that is highlighted in blue on the screenshot from above.

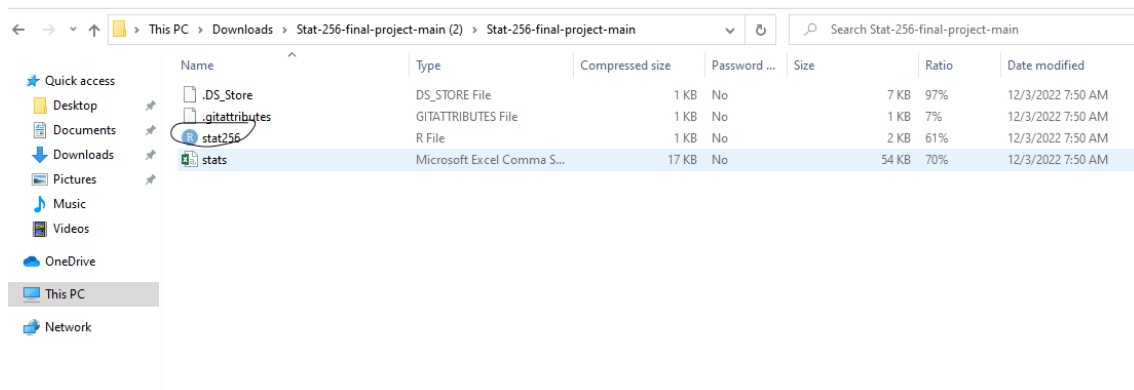
By doing this, you will open the .csv file. Once you have done this, click on “File”



After that, click on “Save as” and save it on your preferred location.



After you have done this, go back to the file “Stat-256-final-project-main “ and now, click on “stat256”.



Once, you have clicked on “stat256”, R or R-studio will open and you will see the following:

```
1 |
2 myprogram <- function()
3 {
4   Football1<-read.csv('stats.csv',header=T, sep=';')
5   attach(Football1)
6   lm.fit<-lm(formula = wins ~ goals + clean_sheet + goals_conceded, data=Football1)
7   comparisontable=as.data.frame(cbind(as.character(Football1$team), lm.fit$residuals))
8   var1 = readline("Enter 1st team ")
9   marker1=0
10  while(marker1==0)
11  {
12    for(i in 1:length(comparisontable[,1]))
13      if(var1== comparisontable[i,1])
14      {
15        marker1=1
16        varone=comparisontable[i,2]
17      }
18    if(marker1==0) print("This is not a team. Try again. ")
19  }
20  var2 = readline("Enter 2nd team ")
21  marker2=0
22  while(marker2==0)
23  {
24    if(var1==var2)
25    {
26      print("The two teams cannot be equal, try again")
27    }
28  }
29 }
```

R 4.1.2 · C:/Users/nxm1050/AppData/Local/Temp/Temp1_Stat-256-final-project-main (1).zip/Stat-256-final-project-main/

R version 4.1.2 (2021-11-01) -- "Bird Hippie"
Copyright (C) 2021 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

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Type 'contributors()' for more information and
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Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> |

What you are seeing highlighted in blue is the code that runs the program. Now, select the whole code and copy and paste it on the part that is circled in the following screenshot:

```
1 myprogram <- function()
2 {
3   Football1<-read.csv('stats.csv',header=T, sep=';')
4   attach(Football1)
5   lm.fit<-lm(formula = wins ~ goals + clean_sheet + goals_conceded, data=Football1)
6   comparisontable=as.data.frame(cbind(as.character(Football1$team), lm.coef(lm.fit)))
7   var1 = readline("Enter 1st team ")
8   marker1=0
9   while(marker1==0)
10  {
11    for(i in 1:length(comparisontable[,1]))
12      if(var1== comparisontable[i,1])
13      {
14        marker1=1
15        varone=comparisontable[i,2]
16      }
17    if(marker1==0) print("This is not a team. Try again. ")
18  }
19  var2 = readline("Enter 2nd team ")
20  marker2=0
21  while(marker2==0)
22  {
23    if(var1==var2)
24    {
25      print("The two teams cannot be equal, try again")
26    }
27  }
28 }
```

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Type 'q()' to quit R.

> |

Finally, now that you have pasted the code, you just need to type “myprogram()” at the end of the code, hit enter and you will be ready to start!

```
    print("Undetermined")
  }
}
myprogram()|
```

After doing this, the program will ask you to input the name of two different teams from the .csv file you had previously downloaded.

Remember that this is a program that predicts the winner when two teams play each against other, so the two teams that you enter must be different.

Also, be careful with the spelling and with capitalization because if you write the name of a team in a different way than is written on the .csv file, the program will not be able to predict the winner.

Finally, remember, that this program can only predict the winner of teams that are included in the .csv file, so you can only type teams that are included in the dataset.