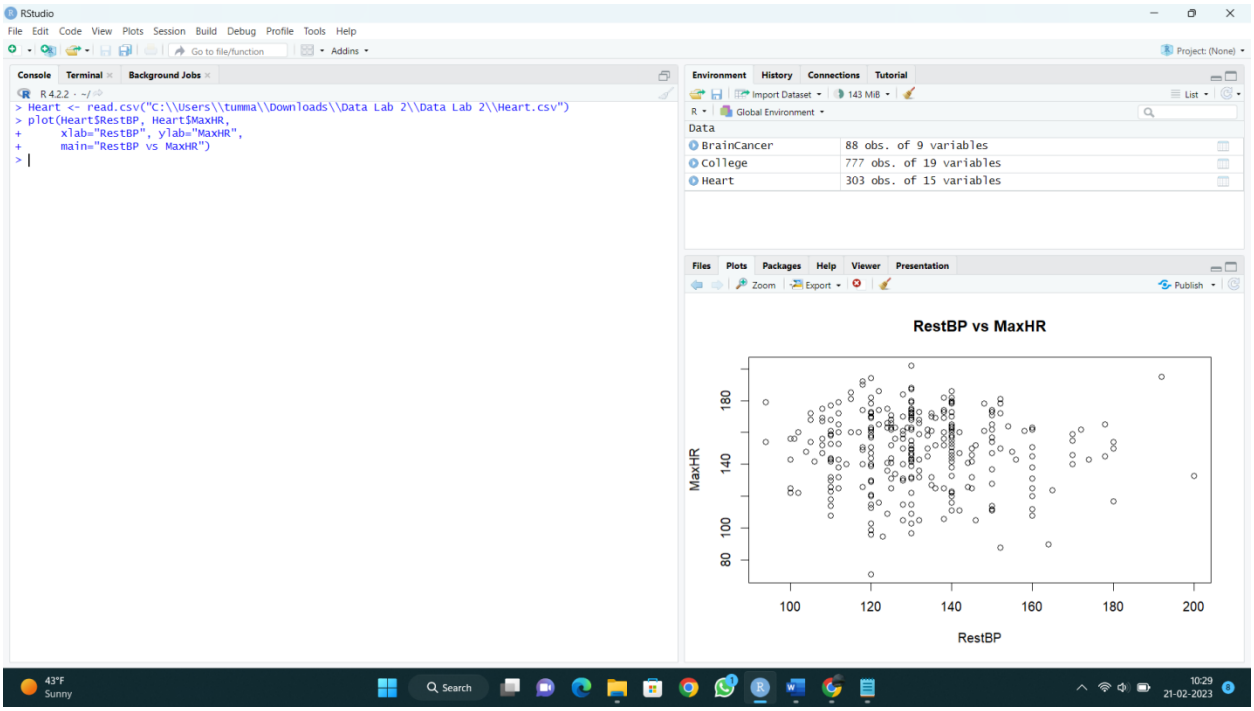
1. Visualizations from Heart

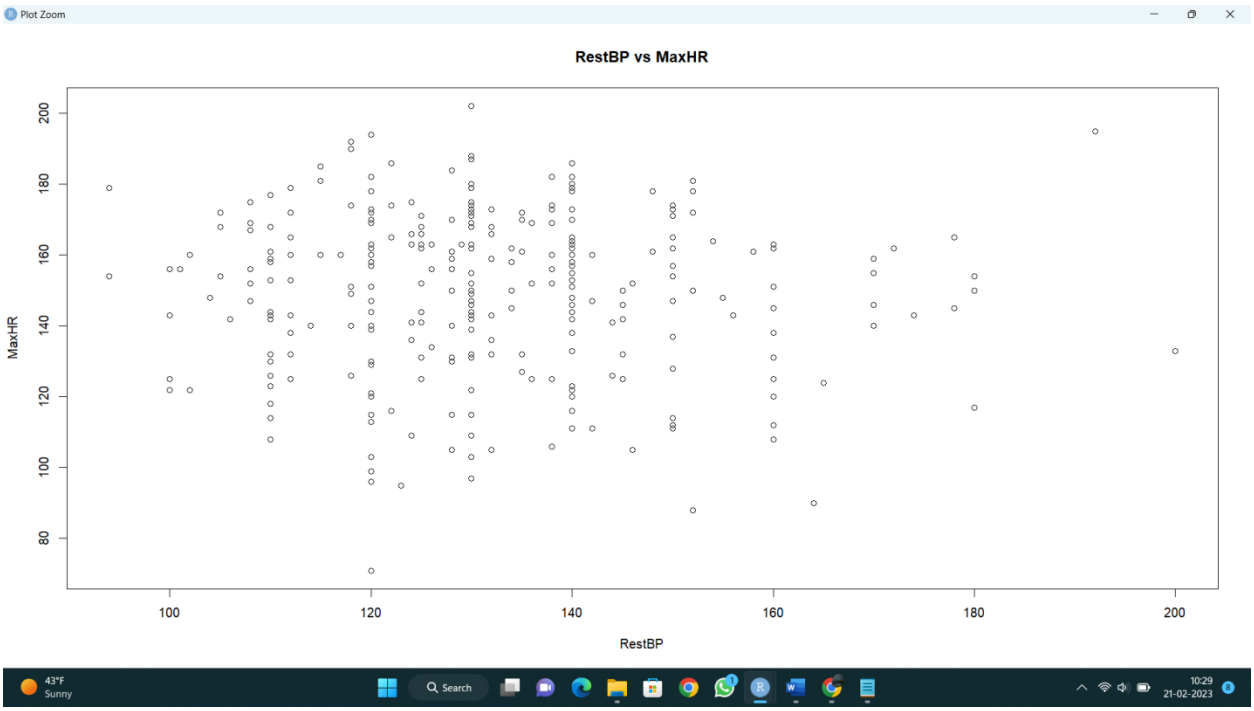
Used the read.csv function to import the Credit csv file

Heart <- read.csv("C:\\Users\\tumma\\Downloads\\Data Lab 2\\Data Lab 2\\Heart.csv")

1.1 Scatter plot of **RestBP** vs **MaxHR**

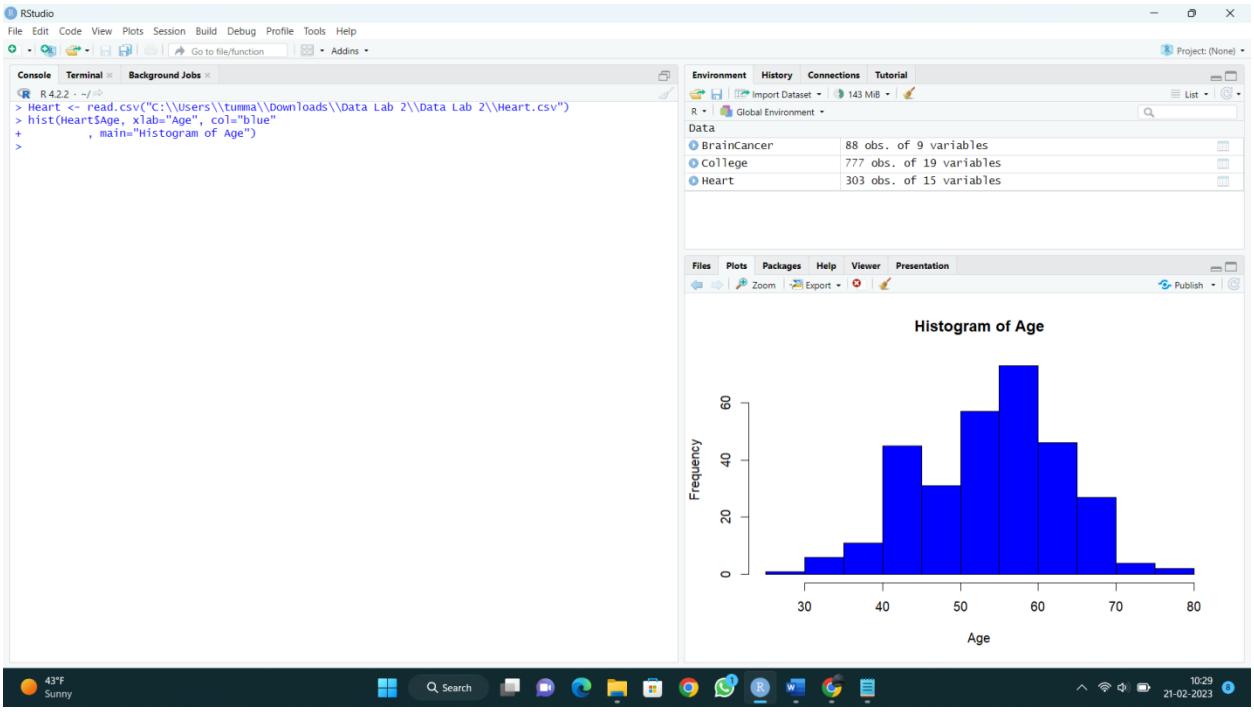
```
plot(Heart$RestBP, Heart$MaxHR,
xlab="RestBP", ylab="MaxHR",
main="RestBP vs MaxHR")
```

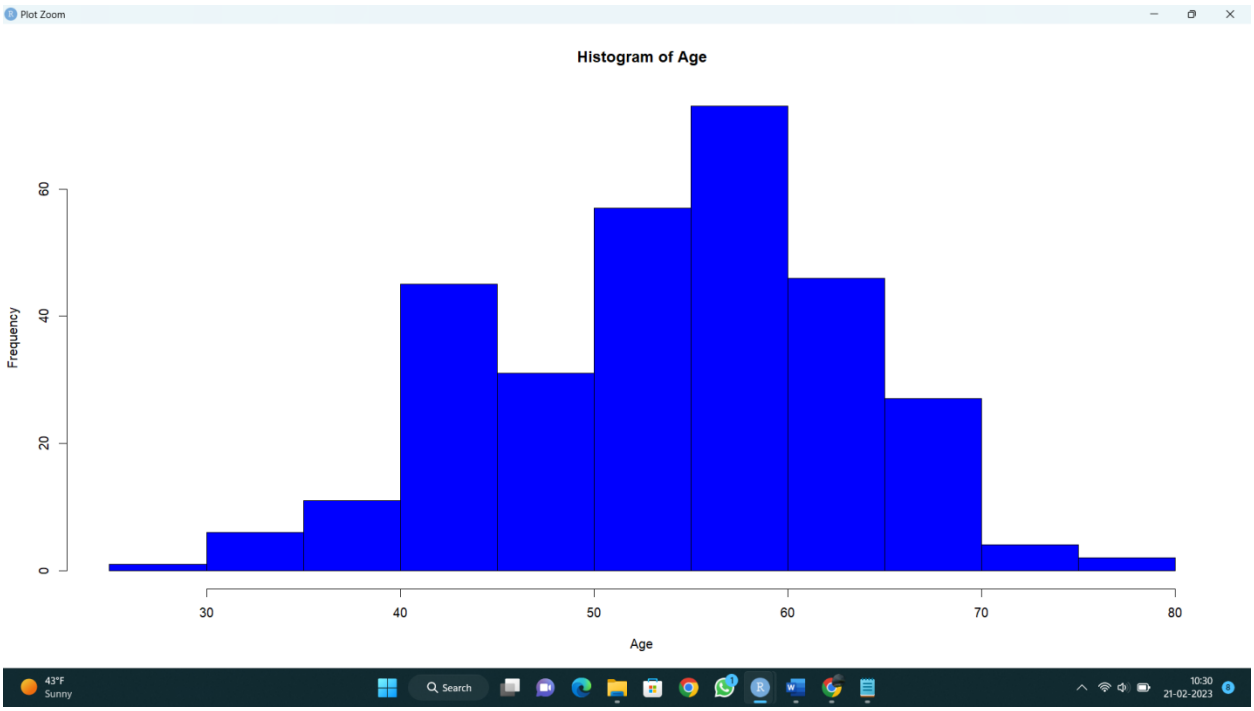




1.2Histogram of Age

```
hist(Heart$Age, xlab="Age", col="blue"
     , main="Histogram of Age")
```





1.3 Boxplot of **Sex** vs **ChestPain**

```
boxplot(Heart$Sex ~ Heart$ChestPain,
        xlab="ChestPain", ylab="Sex",
        main="Sex data", border="red")
```

RStudio

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Console Terminal Background Jobs

R 4.2.2 · ~/

```
> Heart <- read.csv("C:\\Users\\tumma\\Downloads\\Data Lab 2\\Data Lab 2\\Heart.csv")
> boxplot(Heart$Sex ~ Heart$ChestPain,
+         xlab="ChestPain", ylab="Sex",
+         main="Sex data", border="red")
>
```

Environment History Connections Tutorial

Import Dataset 143 MiB List

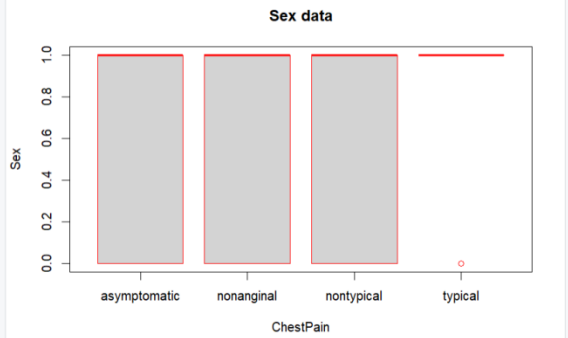
R Global Environment

Data

BrainCancer	88 obs. of 9 variables
College	777 obs. of 19 variables
Heart	303 obs. of 15 variables

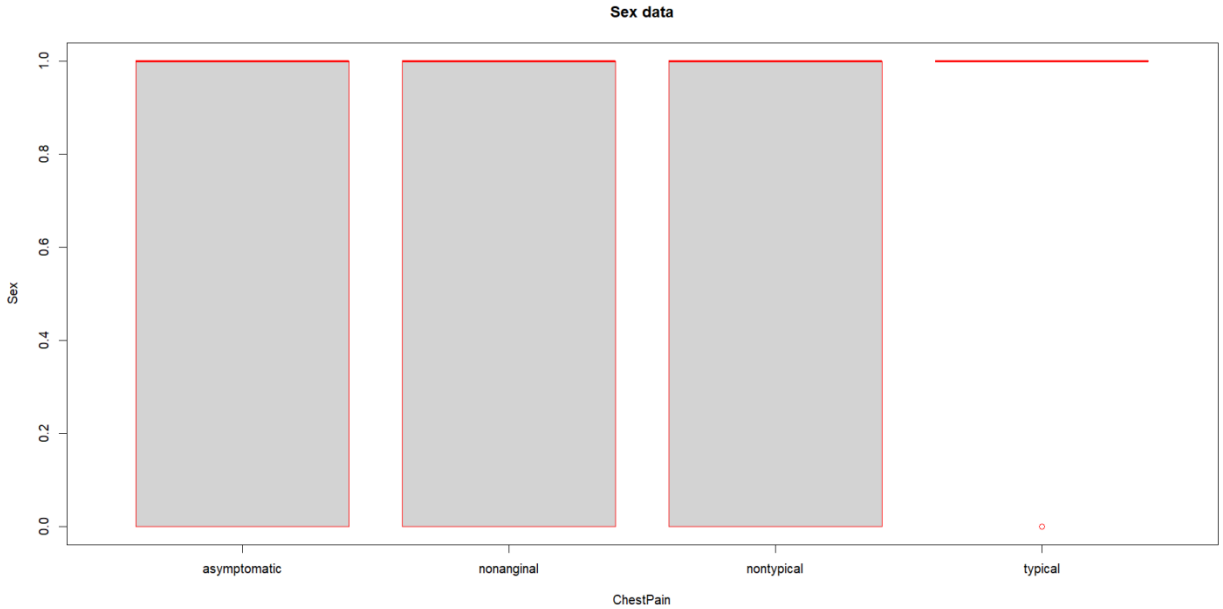
Files Plots Packages Help Viewer Presentation

Zoom Export Publish



43°F Sunny | Search | 10:30 21-02-2023

Plot Zoom



43°F Sunny | Search | 10:30 21-02-2023

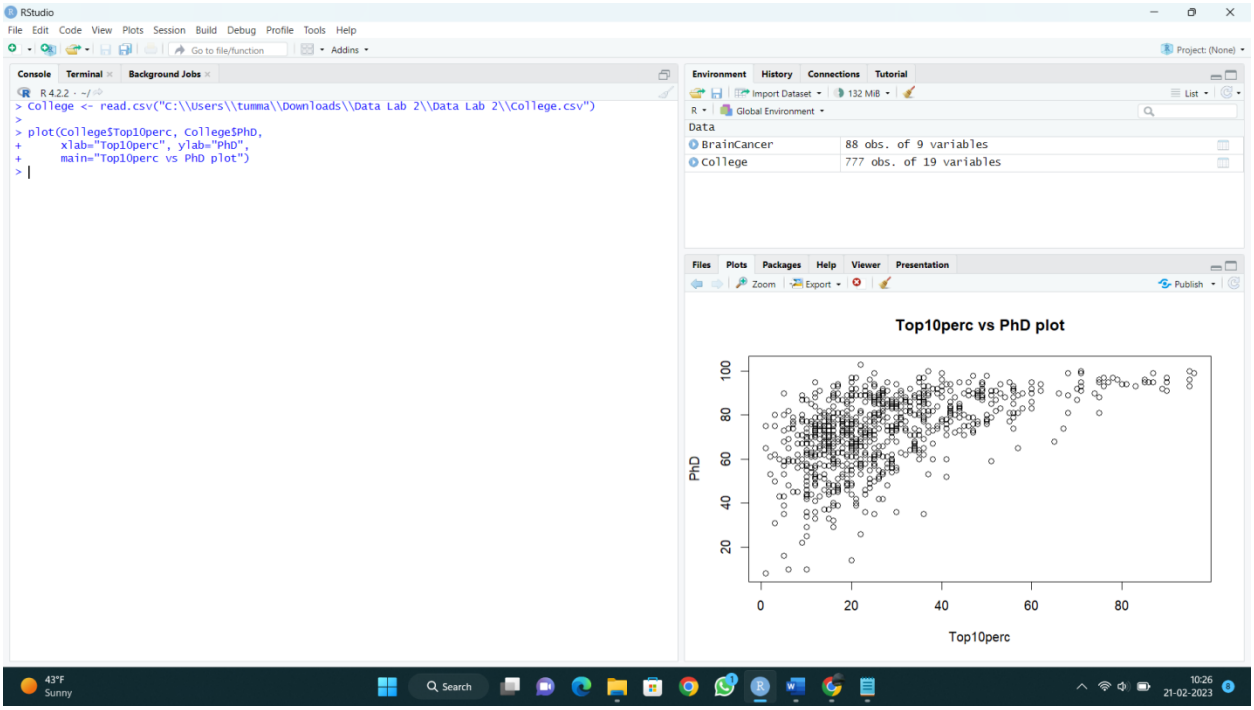
2 Visualizations from College

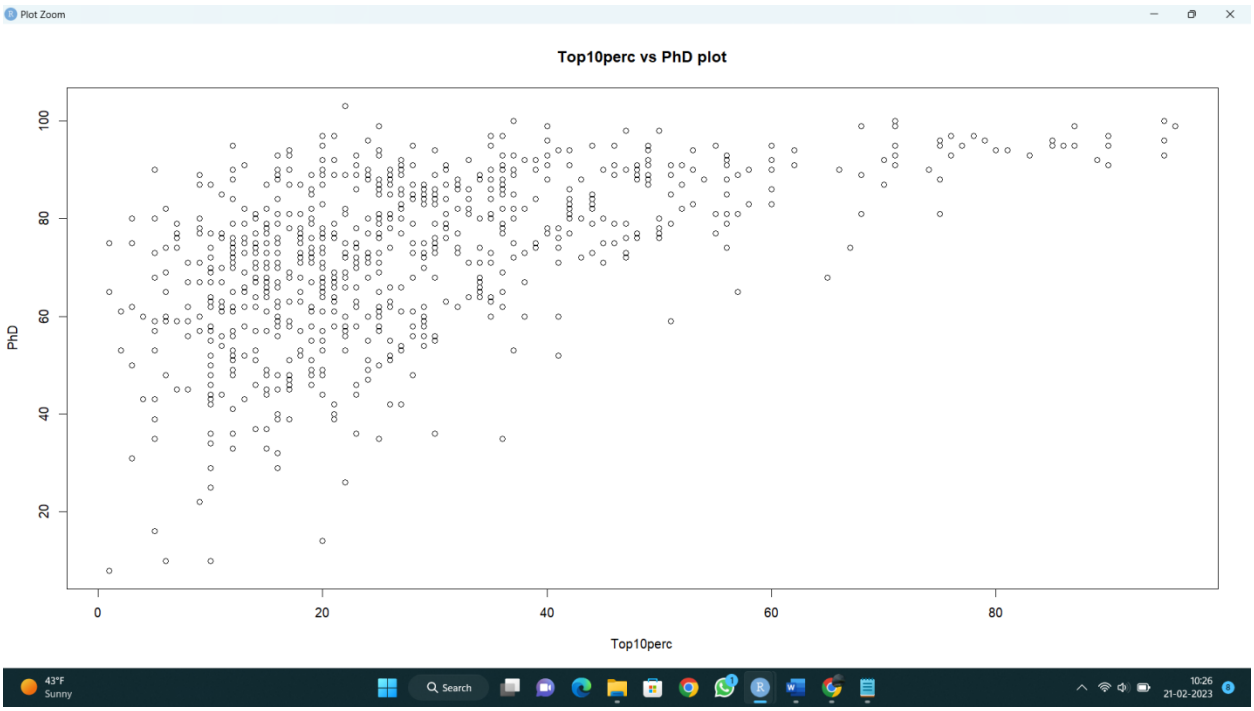
Used the read.csv function to import the College csv file

College <- read.csv("C:\\Users\\tumma\\Downloads\\Data Lab 2\\Data Lab 2\\College.csv")

2.1 Scatter plot of **Top10perc** vs **PhD**

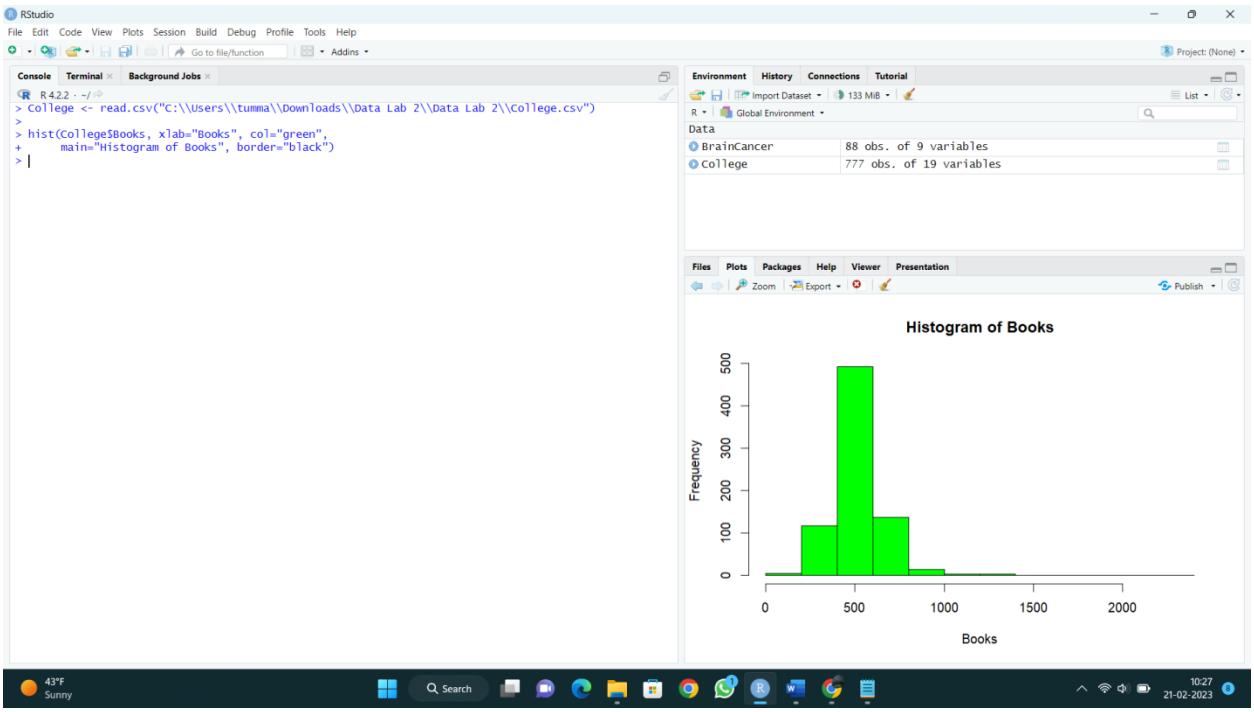
```
plot(College$Top10perc, College$PhD,
     xlab="Top10perc", ylab="PhD",
     main="Top10perc vs PhD plot")
```

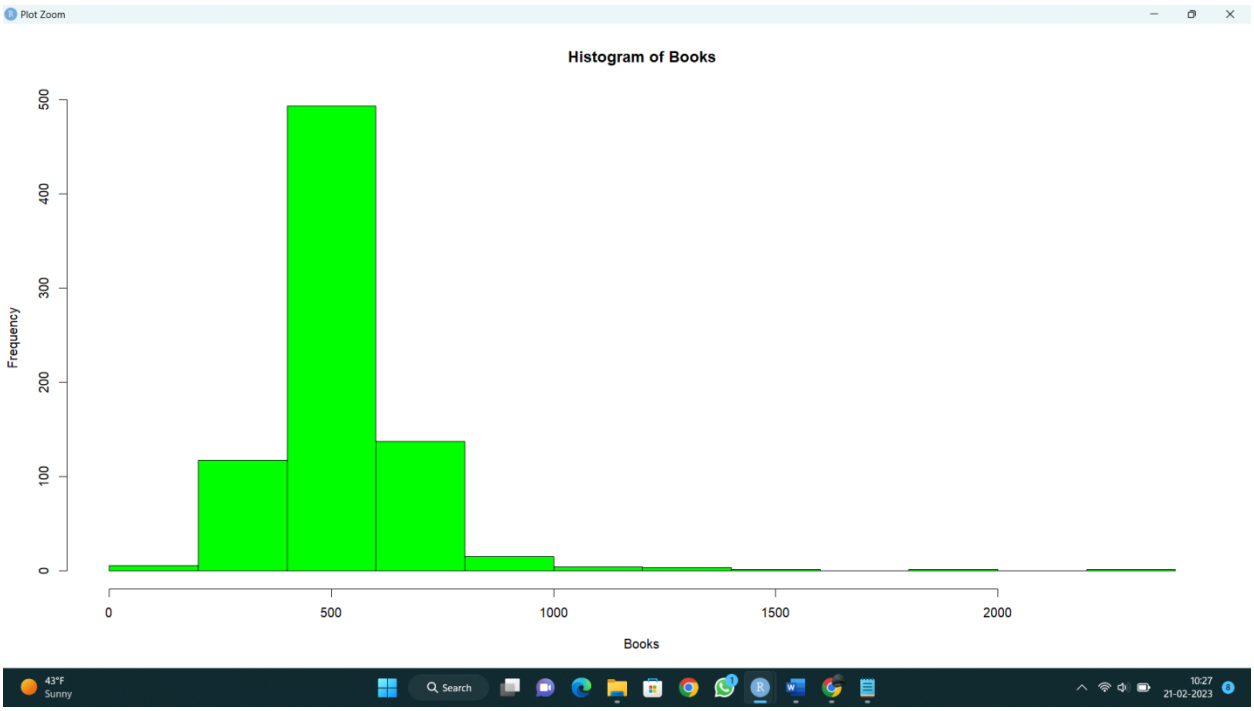




2.2 Histogram of Books

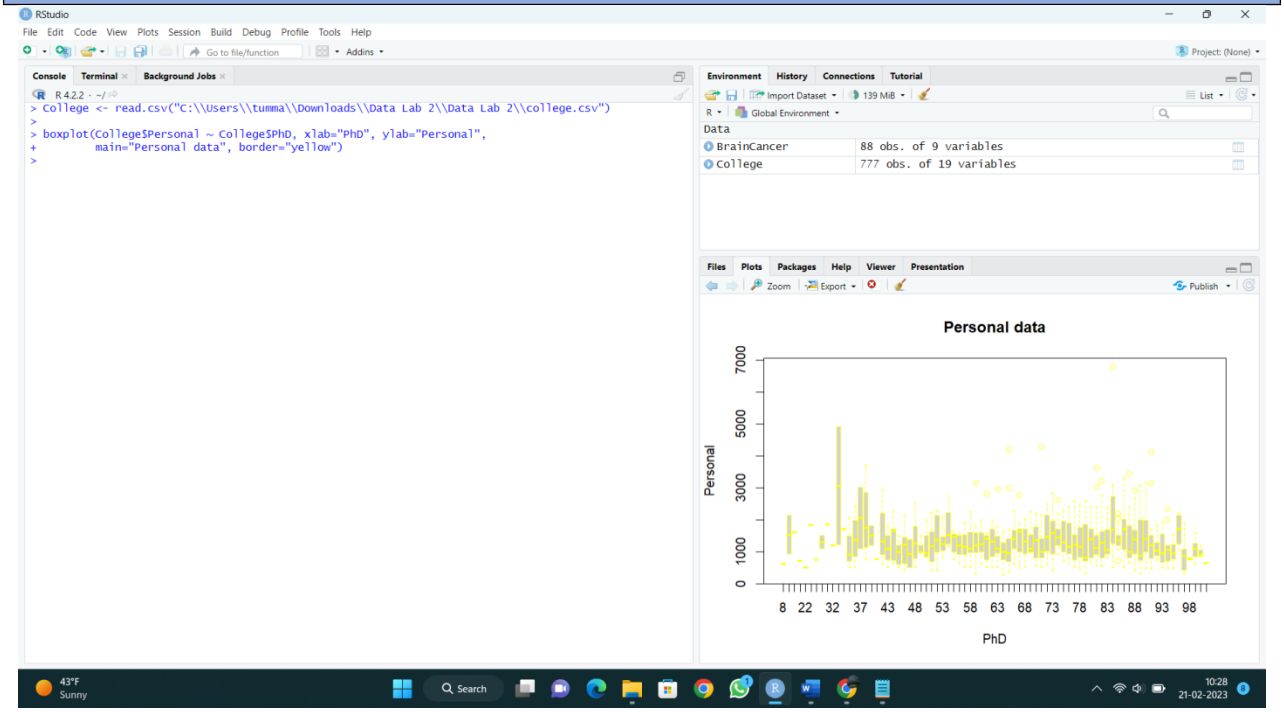
```
hist(College$Books, xlab="Books", col="green",
     main="Histogram of Books", border="black")
```

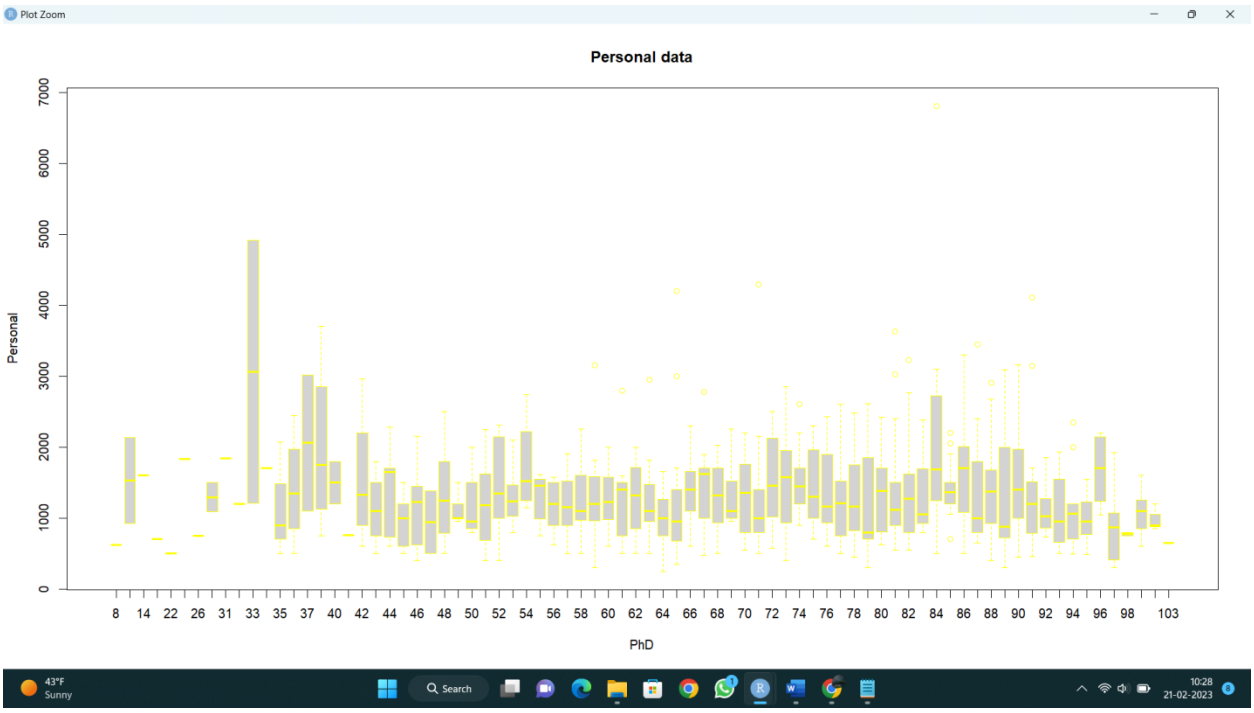




2.3 Boxplot of **Personal** vs **PhD**

```
boxplot(College$Personal ~ College$PhD, xlab="PhD", ylab="Personal",
main="Personal data", border="yellow")
```




Plot Zoom
Personal data
Personal
0
1000
2000
3000
4000
5000
6000
7000
8 14 22 26 31 33 35 37 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 103
PhD
43°F
Sunny
Search
10:28
21-02-2023

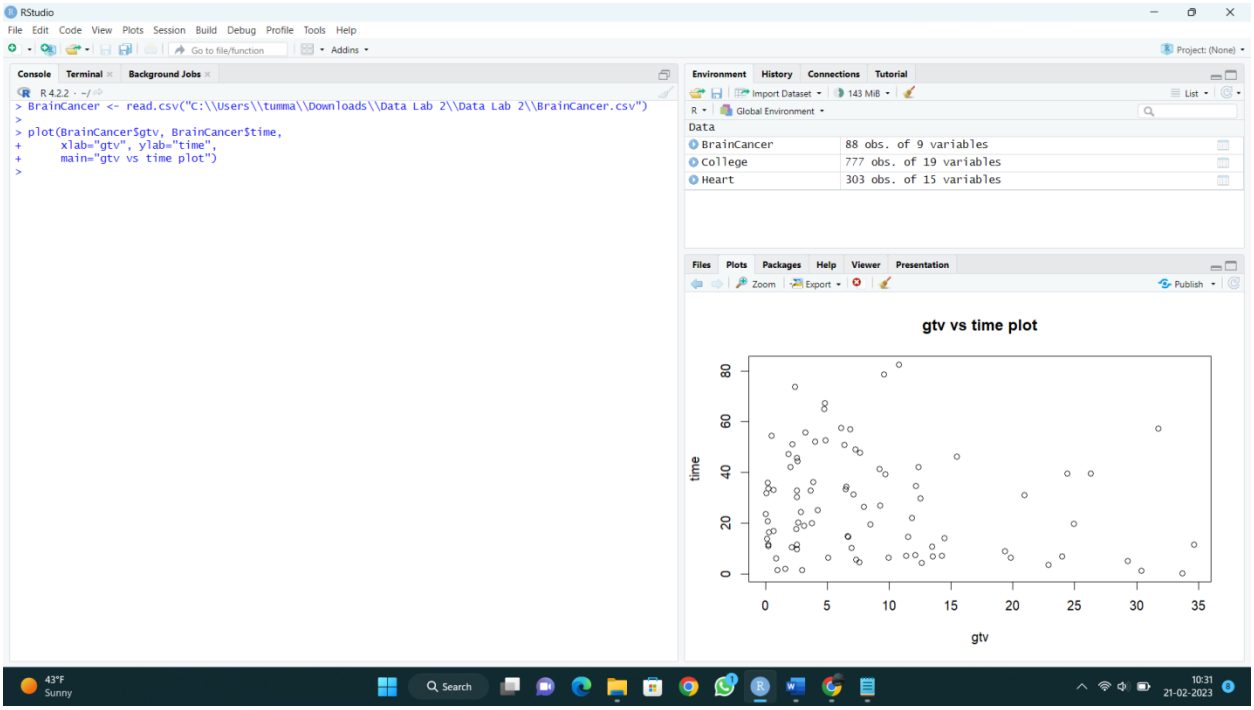
3 Visualizations from BrainCancer

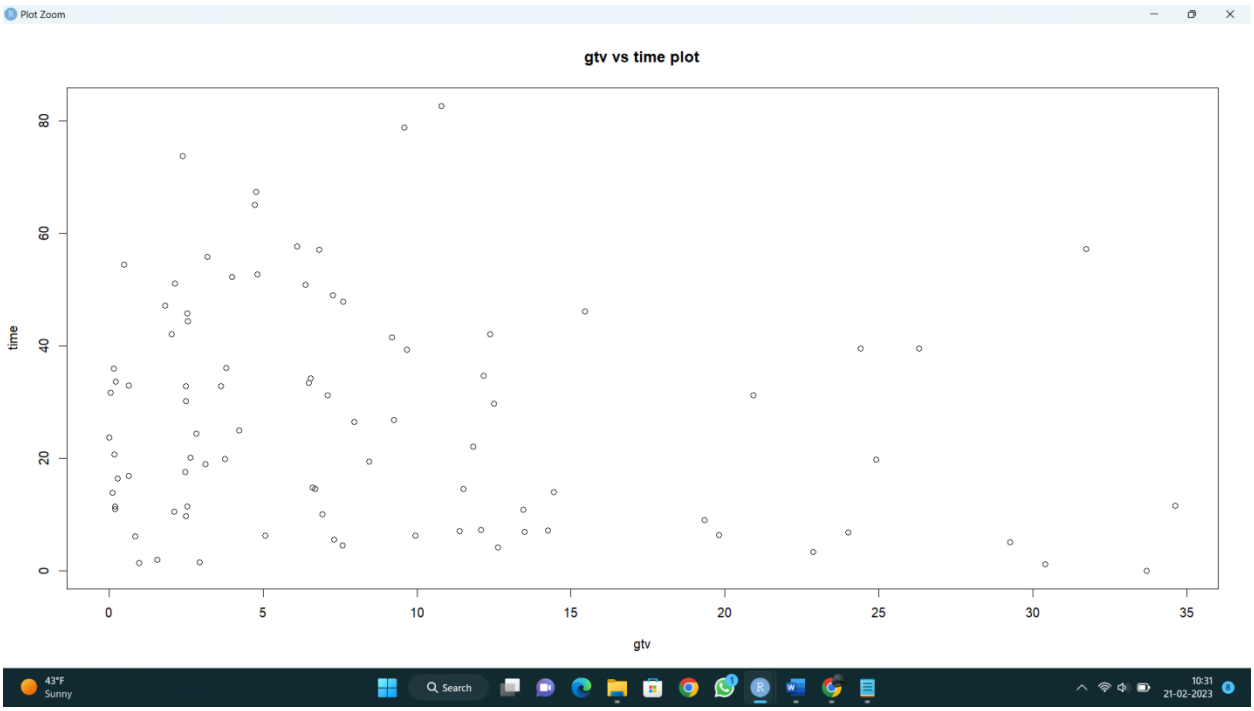
Used the read.csv function to import the BrainCancer csv file

BrainCancer <- read.csv("C:\\Users\\tumma\\Downloads\\Data Lab 2\\Data Lab 2\\BrainCancer.csv")

3.1 Scatter plot of **gtv** vs **time**

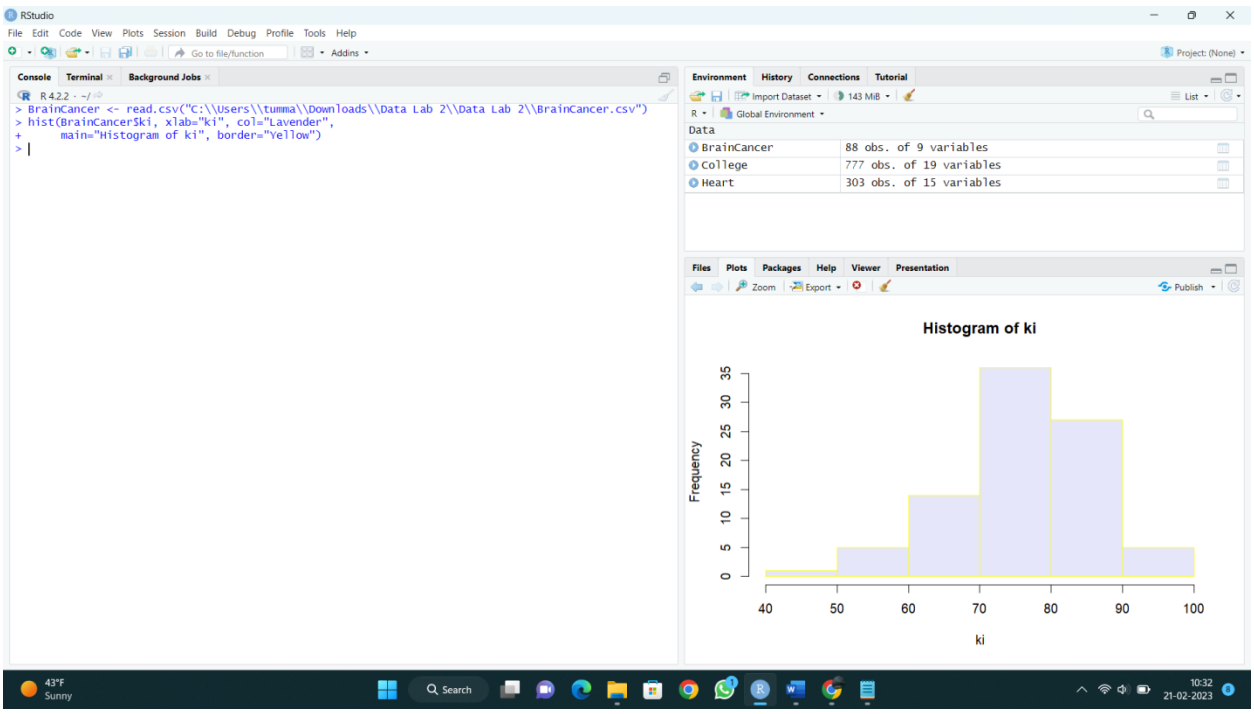
```
plot(BrainCancer$gtv, BrainCancer$time,
     xlab="gtv", ylab="time",
     main="gtv vs time plot")
```

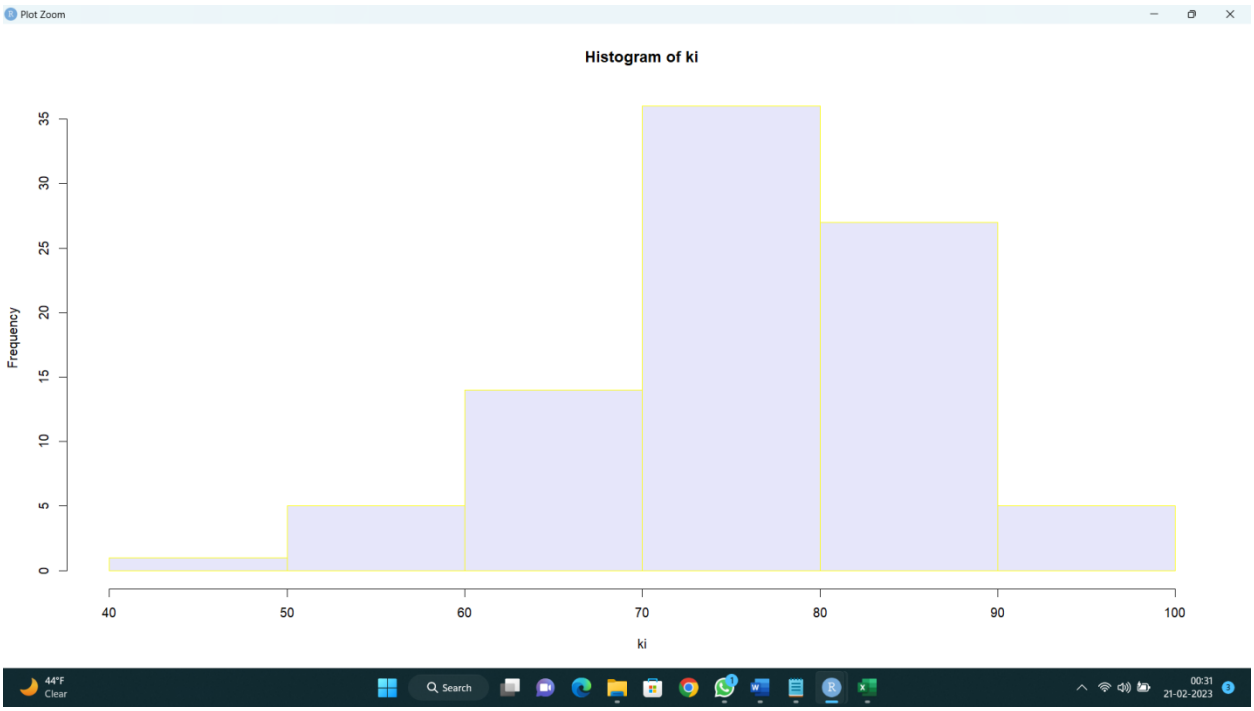




3.2 Histogram of ki

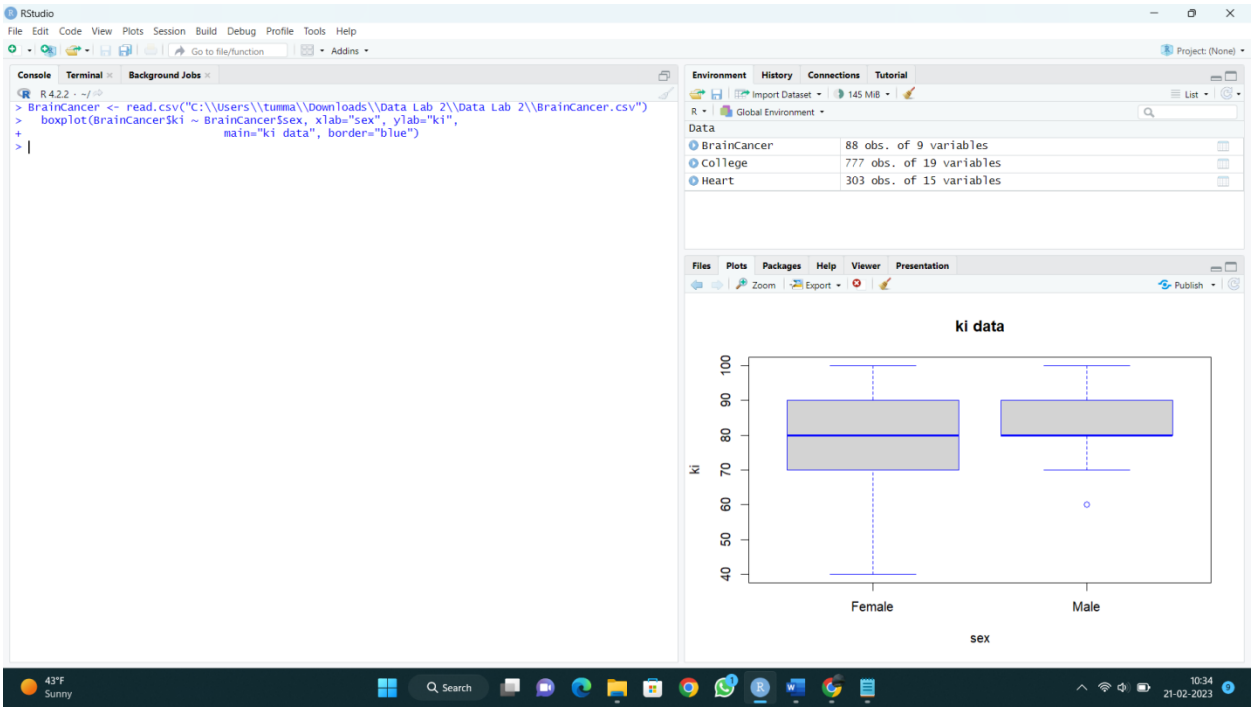
```
hist(BrainCancer$ki, xlab="ki", col="Lavender",
     main="Histogram of ki", border="Yellow")
```





3.3 Boxplot of **sex** vs **ki**

```
boxplot(BrainCancer$ki ~ BrainCancer$sex, xlab="sex", ylab="ki",
main="ki data", border="blue")
```




Plot Zoom
ki data
ki
100
90
80
70
60
50
40
Female
Male
sex
43°F
Sunny
Search
10:34
21-02-2023