Name - Ratika

Course - MCA Section - A Sem - 1st

RollNo - 2101166 (67)

Student Id - 21712076

Subject - Scripting Languages and R Programming

Type of Paper - End term Practical Exam.

Ans:-

```
<html>
<head>
<title> display data in table format </title>
</head>
<body>
<? php
$con = mysql_connect("localhost", "root", "");
if (!$con)
{ die ("not connected." mysql_error());
}
echo "connection open." "<br/>";
$sldb = mysql_select_db ("cust", $con);
if (!$ sldb)
{ die ("not found". mysql_error());
}
echo "Database selected". "<br/>";
$query = "select * from customer";
$sql = mysql_query ($, query);
echo "<table border = '1'>
<tr>
<th> C_No </th>
<th> C_Name </th>
<th> Item_purchased </th>
<th> Mob_no </th>
</tr>";
```

```
while ($row = mysql_fetch_array ($sql))
{
 echo "<tr>";
 echo "<td>".$row['c_no']."</td>";
 echo "<td>".$row['c_name']."</td>";
 echo "<td>".$row['item_purchased']."</td>";
 echo "<td>".$row['mob_no']."</td>";
 echo "</tr>";
}
 echo "</table>";
?>
</body>
</html>
```

Connection open

Database Selected

C_No	C_Name	Item_Purchased	Mob_no
1	Anil	Book	2147483647
2	Yogesh	Marker	2147483647

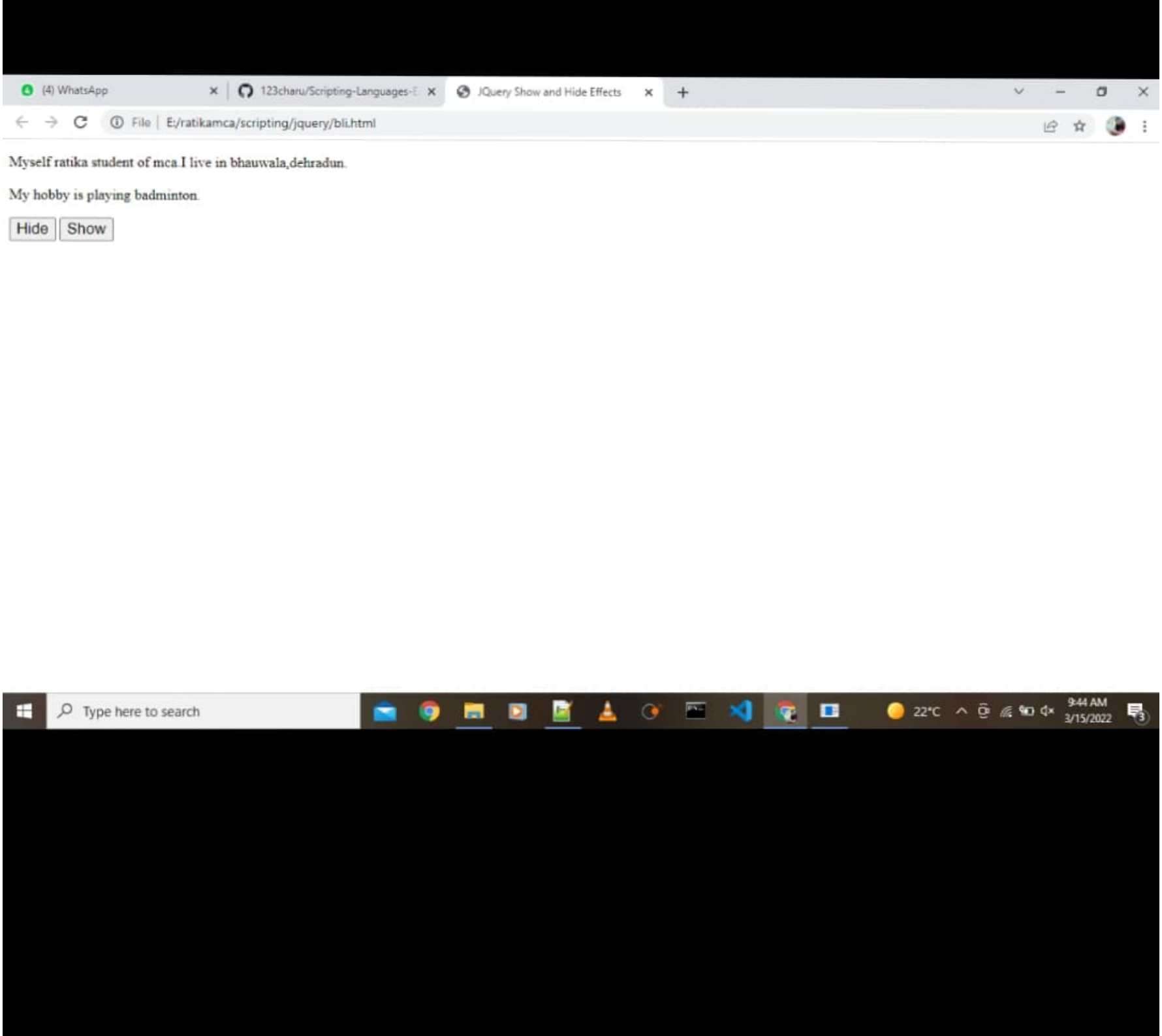
Ans 2-

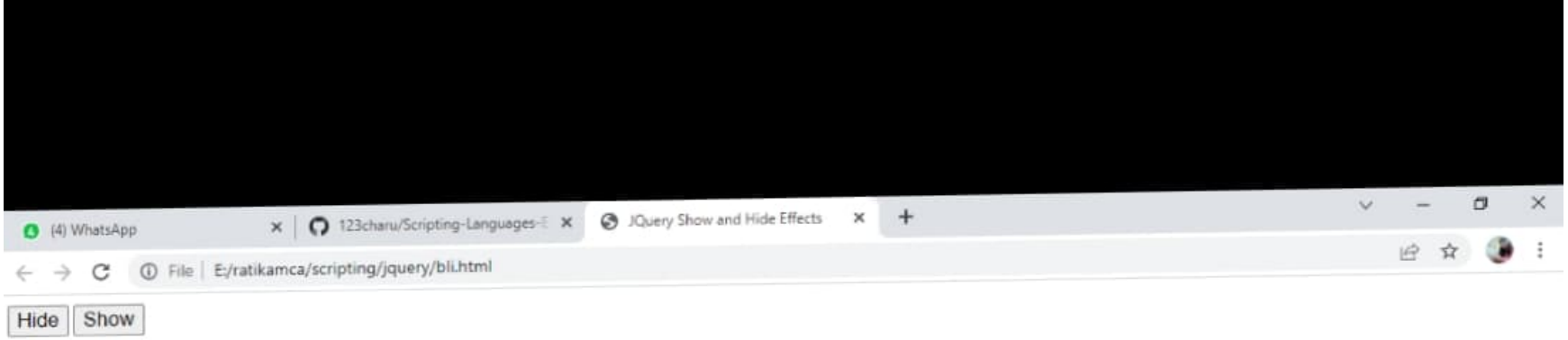
```
<!DOCTYPE html>
<html>
<head>
<title> Jquery show and hide effects
</title>
<script src="https://code.jquery.com/
jquery-1.12.4.min.js"></script>
<style>
.button{
    text-align: center;
    display: inline-block;
    font-size: 17px;
    cursor: pointer;
}
</style>
<script>
$(document).ready(function(){
  $("#show").click(function(){
    $("p").show();
  });
  $("#hide").click(function(){
    $("p").hide();
  });
});
</script>
```

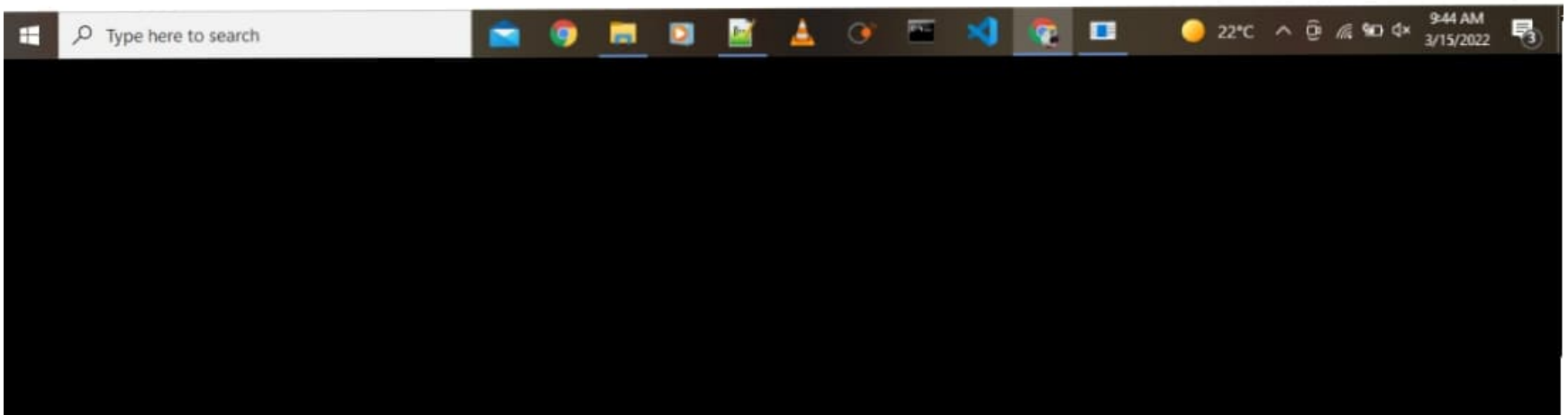
Ravi Key

</head>
<body>
 Myself ratika student of mca. I live in bhauwala, dehradun.

My hobby is playing badminton.
<button class = "button" id = "hide" > Hide
</button>
<button class = "button" id = "show" >
show </button>
</body>
</html>


(4) WhatsApp
123charu/Scripting-Languages-E
JQuery Show and Hide Effects
File | E:/ratikamca/scripting/jquery/bli.html
Myself ratika student of mca.I live in bhauwala,dehradun.
My hobby is playing badminton.
Hide
Show
Type here to search
22°C
9:44 AM
3/15/2022


(4) WhatsApp
123charu/Scripting-Languages-E
JQuery Show and Hide Effects
File | E:/ratikamca/scripting/jquery/bli.html
Hide
Show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3/15/2022

R programming

Ans 3- Analyzing the heart failure prediction.

- Reading of .csv file

```
heart <- read.csv("C:/Users/ok/Downloads
/heart.csv")
View(heart)
```

- installing ggplot package

```
install.packages("ggplot2")
```

⇒ this package is important for plotting graphs and charts few of them will be shown below.

Histogram:

```
ggplot(heart, aes(y = cholestrol, x = Age))
+ geom_bar(stat = "identity")
```

- boxplot ⇒

```
ggplot(heart, aes(x = RestingBP, y = cholestrol))
+ geom_boxplot()
```

- scatter plotting ⇒

```
ggplot(heart, aes(x = cholestrol, y = RestingBP))
+geom_point()
```

Ruchika

1) Head and Tail

head (heart)

tail (heart)

2) Maximum

max (heart $ RestingBP)

max (heart $ cholestrol)

3) Minimum

min ← min (heart $ Heart Disease)

min

4) Mean

mean (heart $ Oldpeak)

5) Median

median (heart $ cholestrol

6) Quantile

quantile (heart $ cholestrol)

quantile (heart $ RestingBP)

7) Standard Deviation and Variance

Sd (heart $ cholestrol)

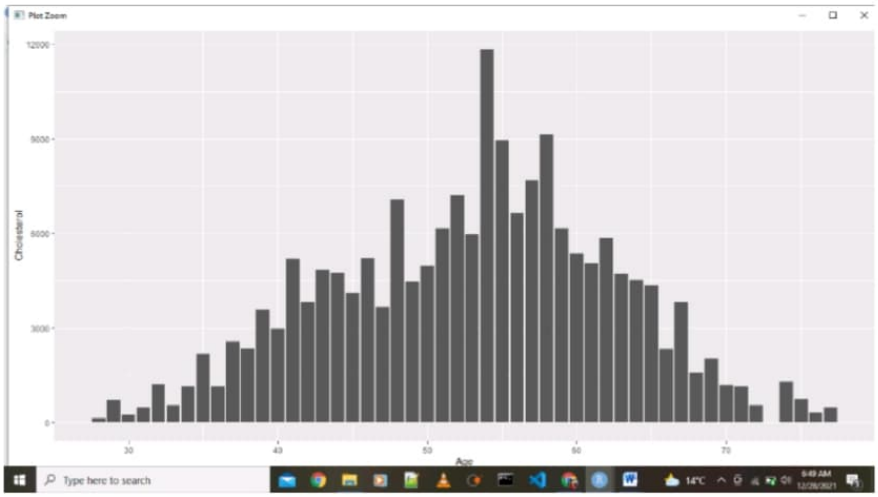
Var (heart $ RestingBP)

8) Summary (heart)

Ratika

- Histogram

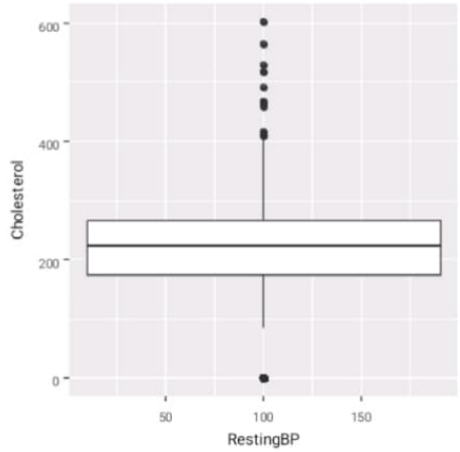
ggplot(heart, aes(y=Cholesterol, x=Age)) + geom_bar(stat = "identity")



- Boxplot

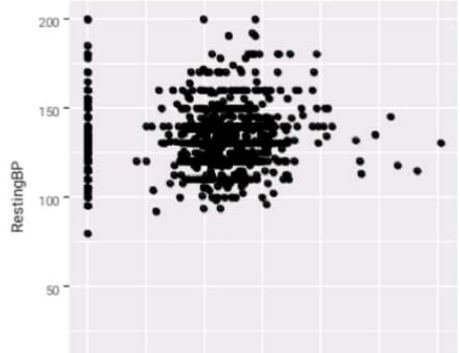
ggplot(heart, aes(x=RestingBP, y=Cholesterol)) +

geom_boxplot()



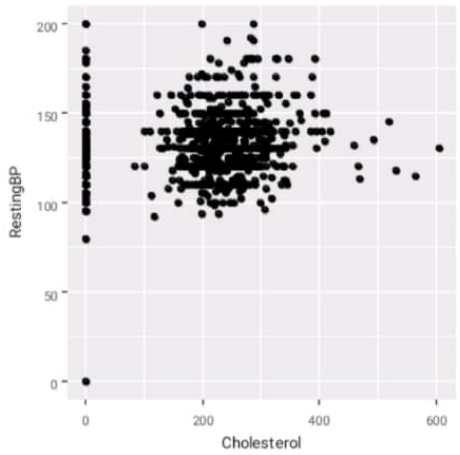
- Scatter plotting

ggplot(heart, aes(x =Cholesterol, y =RestingBP)) +geom_point()

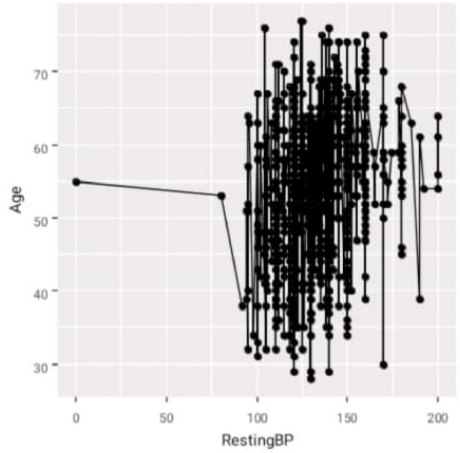


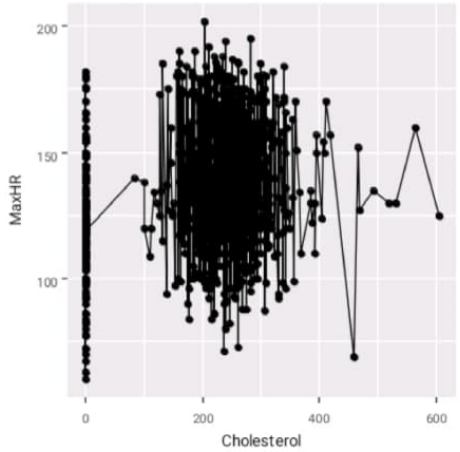
- Scatter plotting

```
ggplot(heart, aes(x =Cholesterol, y =RestingBP)) +geom_point()
```

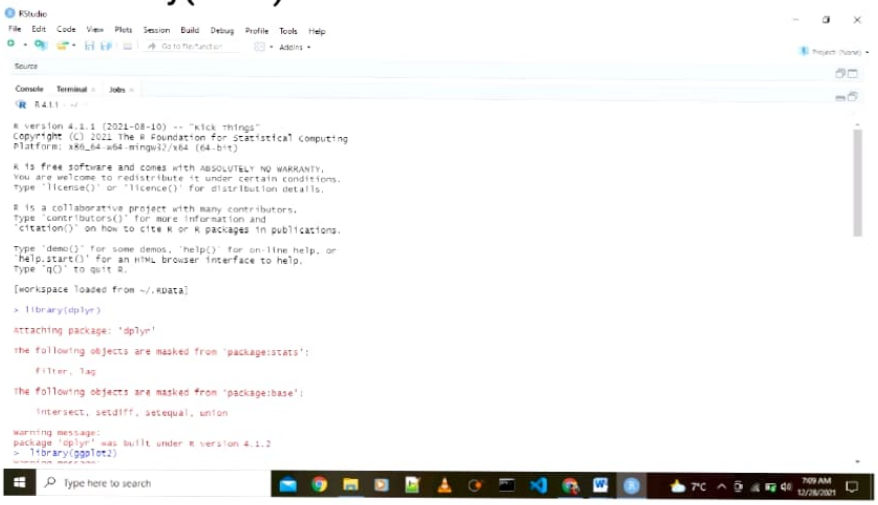


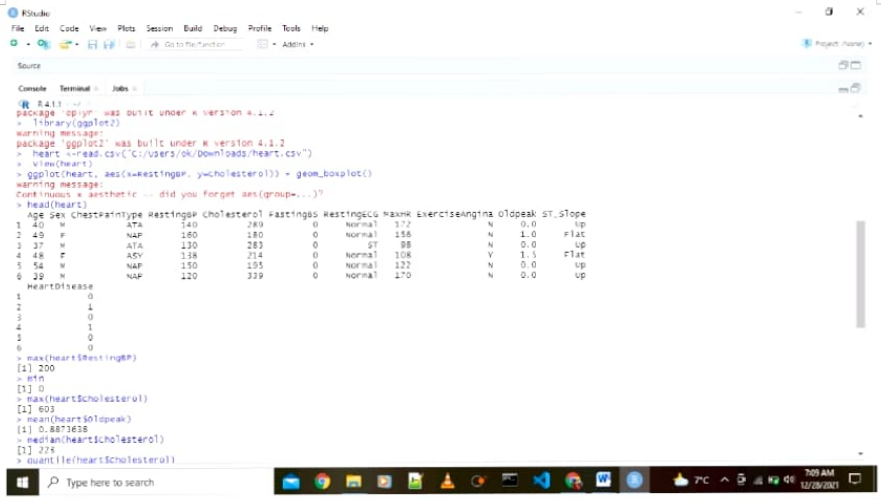
- Line Graph





9. summary(heart)





Ans4 Descriptive and Inferential Statistics of above dataset :-

① Descriptive :

- Maximum RestingBP of the people having heart disease is 200
- minimum heart disease is 0.
- Mean of oldpeak = 0.8873638
- Median of cholestrol = 223
- quantile of RestingBP is :

0%	25%	50%	75%	100%
0	120	130	140	200

- Standard Deviation for cholestrol = 109.384
- Variance of RestingBP = 342.7739

② Inferential ⇒

- chi-squared test

heat <- chisq.test (mydata)

#Output p-value = 0.34273 > 0.04

Thus mydata is highly correlated and we accept the Null hypothesis.

(8) • Anova Test

mydata ← CRE (mydata $ average ~ mydata AST)

mydata = 4

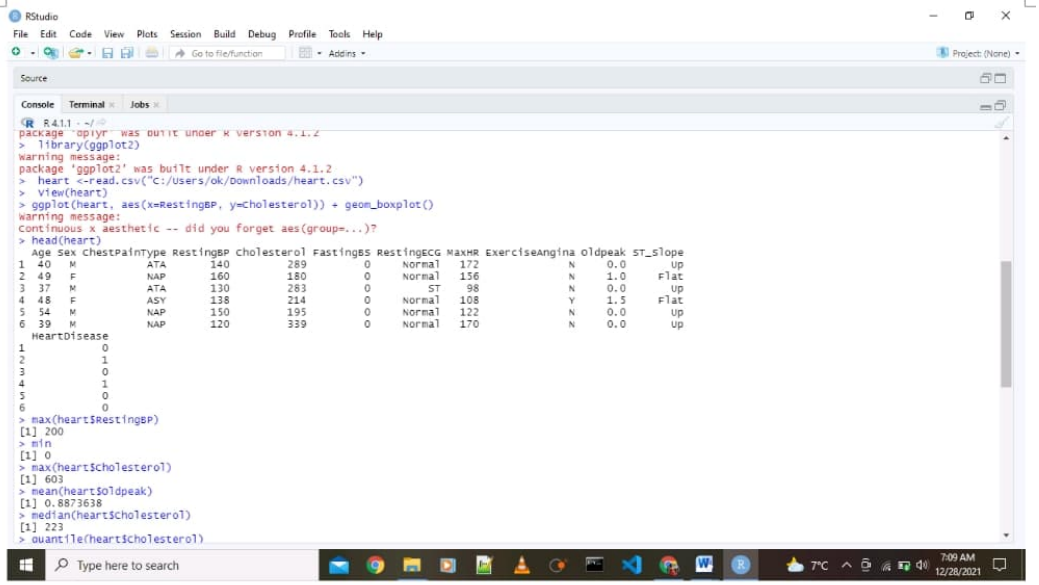
output Pr(>F) is 0.0016 as this value is less than 0.04 then we reject Null hypothesis and ~~reject~~ accept the alternative hypothesis.

• T - Test ⇒

This is given as the T-score for the dataset T.test (mydata, mu = 100)

Here P-value is 0.37273 > 0.04

so we accept the Null Hypothesis.


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
Console Terminal Jobs
package 'dplyr' was built under R version 4.1.2
> library(ggplot2)
Warning message:
package 'ggplot2' was built under R version 4.1.2
> heart <-read.csv("C:/Users/ok/Downloads/heart.csv")
> view(heart)
> ggplot(heart, aes(x=RestingBP, y=Cholesterol)) + geom_boxplot()
Warning message:
Continuous x aesthetic -- did you forget aes(group=...)?
> head(heart)
Age Sex ChestPainType RestingBP Cholesterol FastingBS RestingECG MaxHR ExerciseAngina Oldpeak ST_Slope
1 40 M ATA 140 289 0 Normal 172 N 0.0 Up
2 49 F NAP 160 180 0 Normal 156 N 1.0 Flat
3 37 M ATA 130 283 0 ST 98 N 0.0 Up
4 48 F ASY 138 214 0 Normal 108 Y 1.5 Flat
5 54 M NAP 150 195 0 Normal 122 N 0.0 Up
6 39 M NAP 120 339 0 Normal 170 N 0.0 Up
HeartDisease
1 0
2 1
3 0
4 1
5 0
6 0
> max(heart$RestingBP)
[1] 200
> min
[1] 0
> max(heart$Cholesterol)
[1] 603
> mean(heart$oldpeak)
[1] 0.8873638
> median(heart$Cholesterol)
[1] 223
> quantile(heart$Cholesterol)
Type here to search
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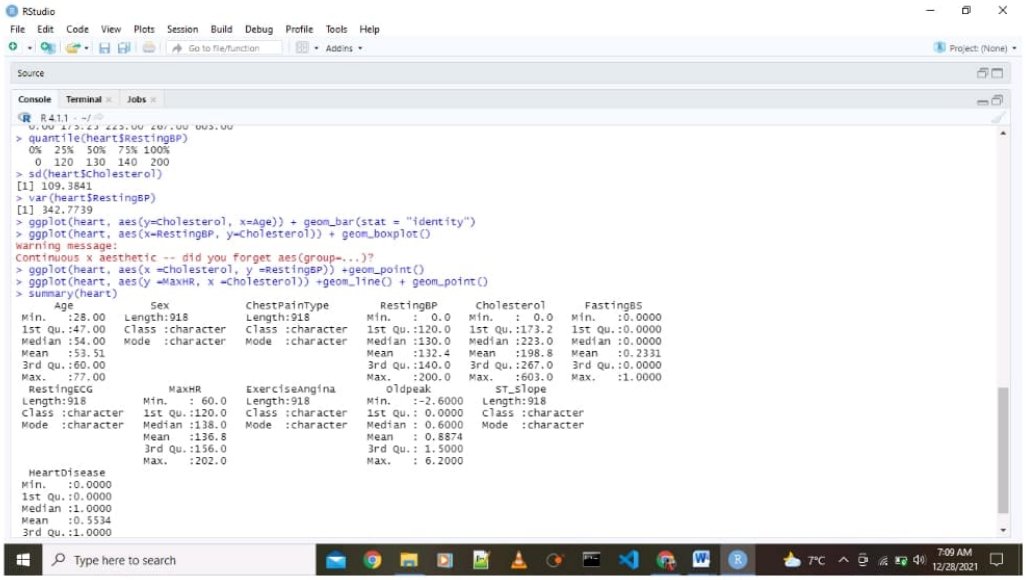
7:09 AM
12/28/2021


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
Console Terminal Jobs
> quantile(heart$RestingBP)
0% 25% 50% 75% 100%
0 120 130 140 200
> sd(heart$Cholesterol)
[1] 109.3841
> var(heart$RestingBP)
[1] 342.7739
> ggplot(heart, aes(y=Cholesterol, x=Age)) + geom_bar(stat = "identity")
> ggplot(heart, aes(x=RestingBP, y=Cholesterol)) + geom_boxplot()
Warning message:
Continuous x aesthetic -- did you forget aes(group=...)?
> ggplot(heart, aes(x =Cholesterol, y =RestingBP)) +geom_point()
> ggplot(heart, aes(y =MaxHR, x =Cholesterol)) +geom_line() + geom_point()
> summary(heart)
Age Sex ChestPainType RestingBP Cholesterol FastingBS
Min. :28.00 Length:918 Length:918 Min. : 0.0 Min. : 0.0 Min. :0.0000
1st Qu.:47.00 Class :character Class :character 1st Qu.:120.0 1st Qu.:173.2 1st Qu.:0.0000
Median :54.00 Mode :character Mode :character Median :130.0 Median :223.0 Median :0.0000
Mean :53.51 Mean :132.4 Mean :198.8 Mean :0.2331
3rd Qu.:60.00 3rd Qu.:140.0 3rd Qu.:267.0 3rd Qu.:0.0000
Max. :77.00 Max. :200.0 Max. :603.0 Max. :1.0000
RestingECG MaxHR ExerciseAngina Oldpeak ST_Slope
Length:918 Min. : 60.0 Length:918 Min. :-2.6000 Length:918
Class :character 1st Qu.:120.0 Class :character 1st Qu.: 0.0000 Class :character
Mode :character Median :138.0 Mode :character Median : 0.6000 Mode :character
Mean :136.8 Mean : 0.8874
3rd Qu.:156.0 3rd Qu.: 1.5000
Max. :202.0 Max. : 6.2000
HeartDisease
Min. :0.0000
1st Qu.:0.0000
Median :1.0000
Mean :0.5534
3rd Qu.:1.0000
Type here to search
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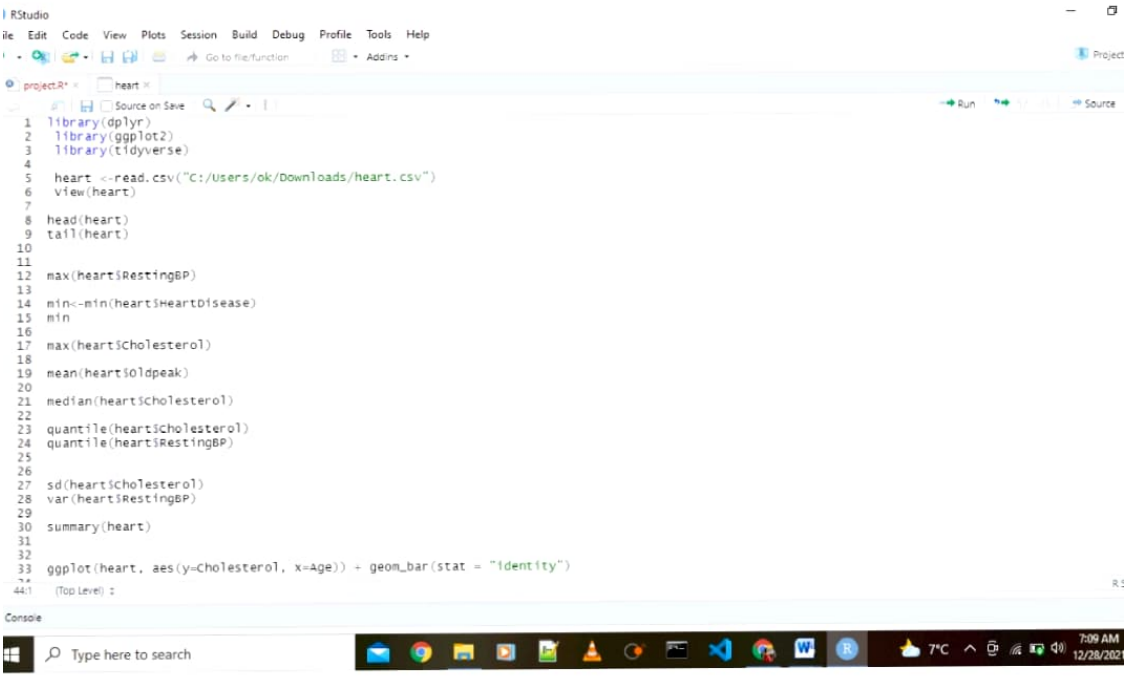
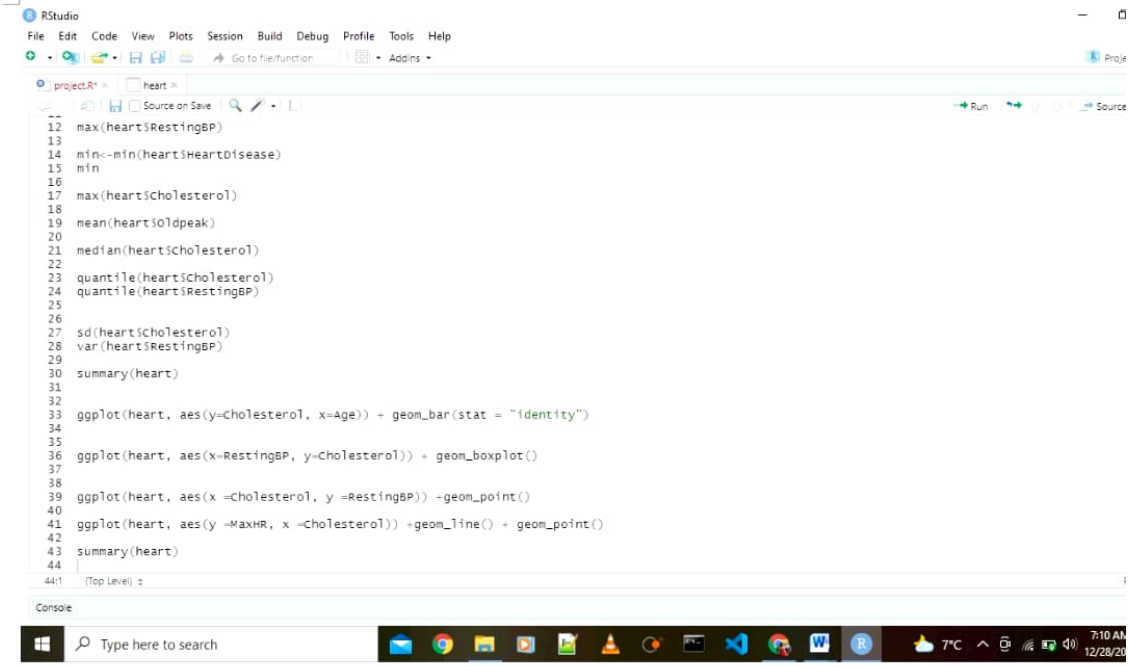
12/28/2021


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Project
project.R*
heart
Source on Save
Run
Source
1 library(dplyr)
2 library(ggplot2)
3 library(tidyverse)
4
5 heart <-read.csv("C:/Users/ok/Downloads/heart.csv")
6 view(heart)
7
8 head(heart)
9 tail(heart)
10
11
12 max(heart$RestingBP)
13
14 min<-min(heart$HeartDisease)
15 min
16
17 max(heart$Cholesterol)
18
19 mean(heart$Oldpeak)
20
21 median(heart$Cholesterol)
22
23 quantile(heart$Cholesterol)
24 quantile(heart$RestingBP)
25
26
27 sd(heart$Cholesterol)
28 var(heart$RestingBP)
29
30 summary(heart)
31
32
33 ggplot(heart, aes(y=Cholesterol, x=Age)) + geom_bar(stat = "identity")
44:1 (Top Level)
Console
Type here to search
7°C
7:09 AM
12/28/2021


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
project.R*
heart
Source on Save
Run
Source
max(heart$RestingBP)
min<-min(heart$HeartDisease)
min
max(heart$Cholesterol)
mean(heart$Oldpeak)
median(heart$Cholesterol)
quantile(heart$Cholesterol)
quantile(heart$RestingBP)
sd(heart$Cholesterol)
var(heart$RestingBP)
summary(heart)
ggplot(heart, aes(y=Cholesterol, x=Age)) + geom_bar(stat = "identity")
ggplot(heart, aes(x=RestingBP, y=Cholesterol)) + geom_boxplot()
ggplot(heart, aes(x =Cholesterol, y =RestingBP)) +geom_point()
ggplot(heart, aes(y =MaxHR, x =Cholesterol)) +geom_line() + geom_point()
summary(heart)
44:1 (Top Level)
Console
Type here to search
7°C
7:10 AM
12/28/20