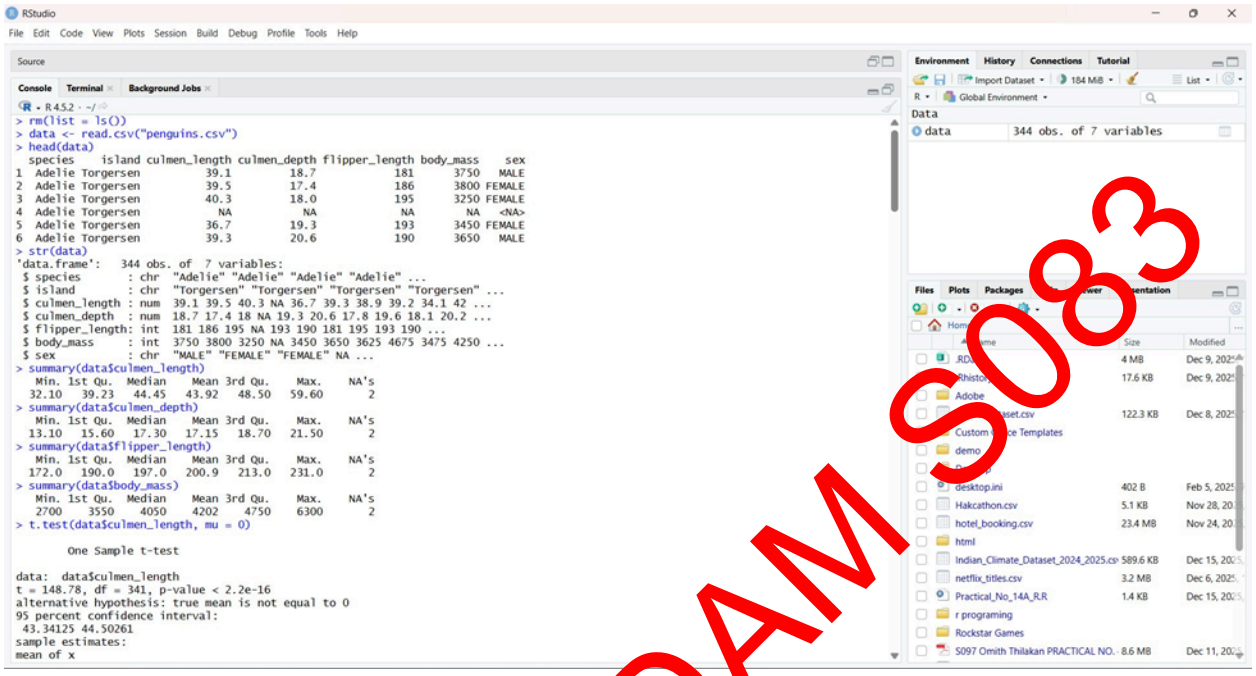
SHETH L.U.J. & SIR M.V. COLLEGE OF SCIENCE
SUBJECT - Data Analysis with R/SAS/SPSS

Aim - Performing one-sample t-tests using t.test() (R).

Output :



Name - Mithil Kadam
Roll No - S083

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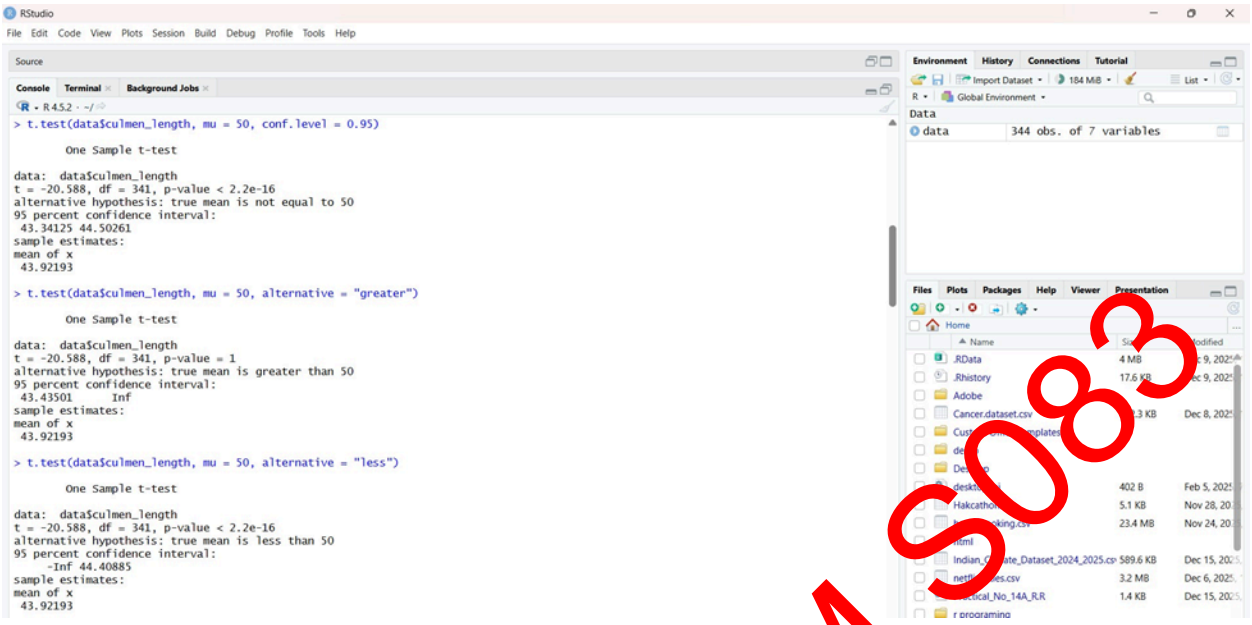
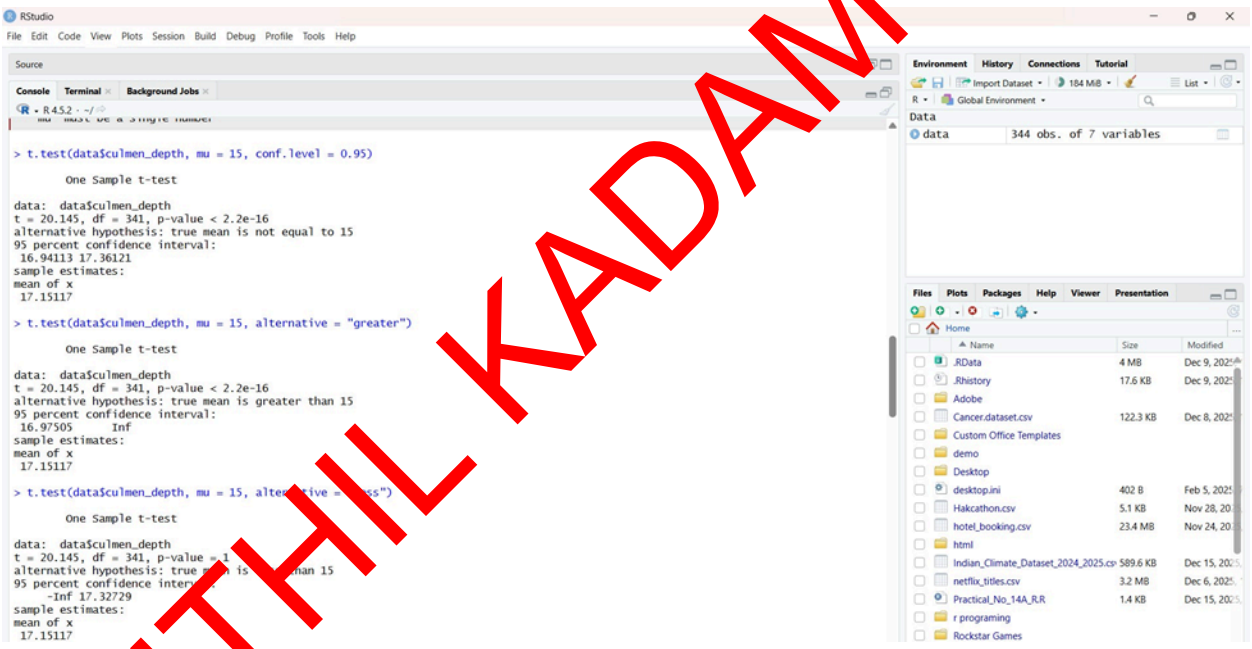
SUBJECT - Data Analysis with R/SAS/SPSS



```
> t.test(data$culmen_length, mu = 50, conf.level = 0.95)

        One Sample t-test

data:  data$culmen_length
t = -20.588, df = 341, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 50
95 percent confidence interval:
 43.34125 44.50261
sample estimates:
mean of x
 43.92193

> t.test(data$culmen_length, mu = 50, alternative = "greater")

        One Sample t-test

data:  data$culmen_length
t = -20.588, df = 341, p-value = 1
alternative hypothesis: true mean is greater than 50
95 percent confidence interval:
 43.43501      Inf
sample estimates:
mean of x
 43.92193

> t.test(data$culmen_length, mu = 50, alternative = "less")

        One Sample t-test

data:  data$culmen_length
t = -20.588, df = 341, p-value < 2.2e-16
alternative hypothesis: true mean is less than 50
95 percent confidence interval:
     -Inf 44.40885
sample estimates:
mean of x
 43.92193
```



```
> t.test(data$culmen_depth, mu = 15, conf.level = 0.95)

        One Sample t-test

data:  data$culmen_depth
t = 20.145, df = 341, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 15
95 percent confidence interval:
 16.94113 17.36121
sample estimates:
mean of x
 17.15117

> t.test(data$culmen_depth, mu = 15, alternative = "greater")

        One Sample t-test

data:  data$culmen_depth
t = 20.145, df = 341, p-value < 2.2e-16
alternative hypothesis: true mean is greater than 15
95 percent confidence interval:
 16.97505      Inf
sample estimates:
mean of x
 17.15117

> t.test(data$culmen_depth, mu = 15, alte          ss")

        One Sample t-test

data:  data$culmen_depth
t = 20.145, df = 341, p-value = 1
alternative hypothesis: true m      is          han 15
95 percent confidence inter
     -Inf 17.32729
sample estimates:
mean of x
 17.15117
```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