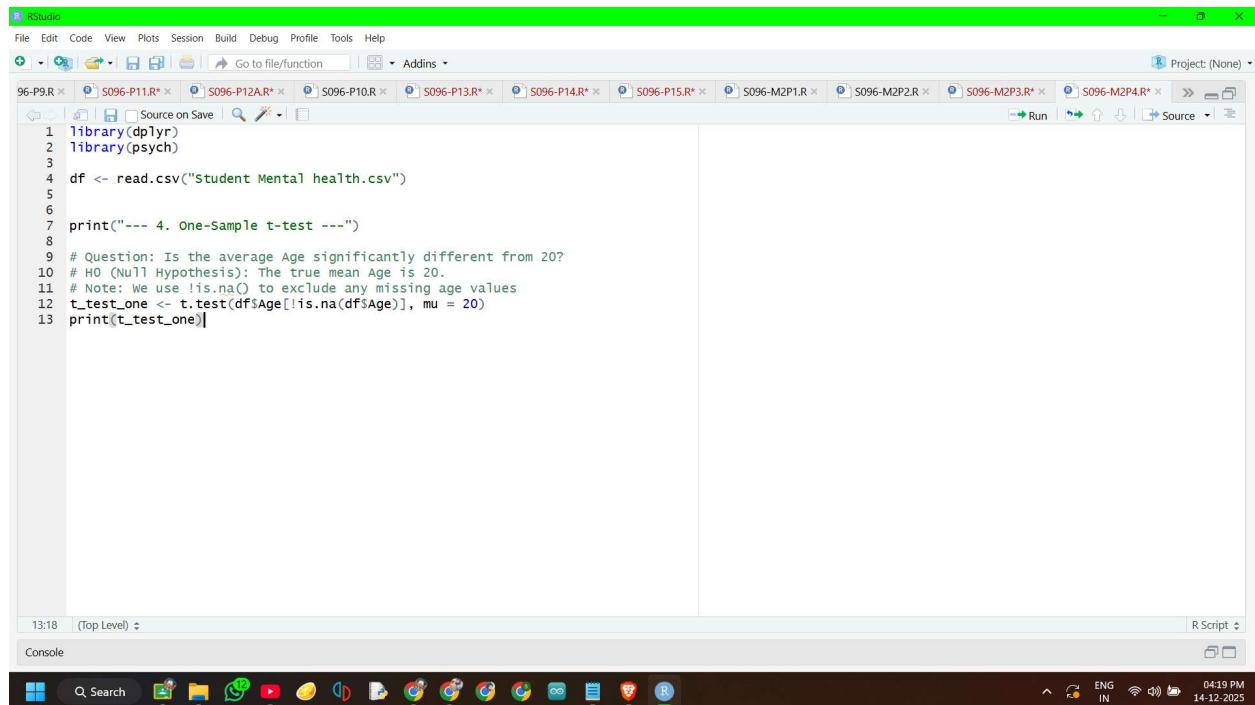


**SHETH L.U.J. AND SIR M.V. COLLEGE**  
**DATA ANALYSIS WITH R**

**AIM:** Performing one-sample t-tests using `t.test()`.

**CODE:**

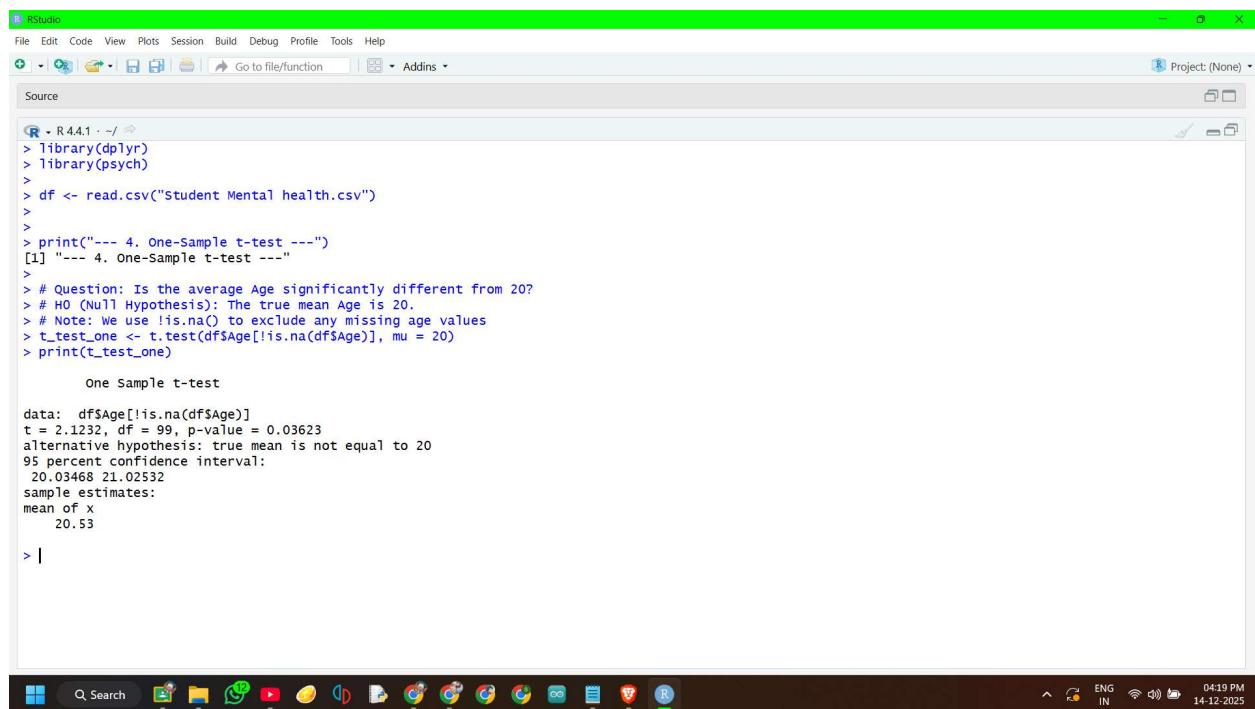


The screenshot shows the RStudio interface. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help, and Addins. The title bar says "RStudio". The main workspace shows the following R code:

```
library(dplyr)
library(psych)
df <- read.csv("Student Mental health.csv")
print("---- 4. One-Sample t-test ---")
# Question: Is the average Age significantly different from 20?
# H0 (Null Hypothesis): The true mean Age is 20.
# Note: We use !is.na() to exclude any missing age values
t_test_one <- t.test(df$Age[!is.na(df$Age)], mu = 20)
print(t_test_one)
```

The status bar at the bottom indicates the time as 13:18 and the script type as "R Script".

**OUTPUT:**



The screenshot shows the RStudio interface with the output of the R code. The top menu bar and title bar are identical to the previous screenshot. The workspace shows the R console output:

```
R > library(dplyr)
> library(psych)
>
> df <- read.csv("Student Mental health.csv")
>
> print("---- 4. One-Sample t-test ---")
[1] "---- 4. One-Sample t-test ---"
>
> # Question: Is the average Age significantly different from 20?
> # H0 (Null Hypothesis): The true mean Age is 20.
> # Note: we use !is.na() to exclude any missing age values
> t_test_one <- t.test(df$Age[!is.na(df$Age)], mu = 20)
> print(t_test_one)

One Sample t-test

data: df$Age[!is.na(df$Age)]
t = 2.1232, df = 99, p-value = 0.03623
alternative hypothesis: true mean is not equal to 20
95 percent confidence interval:
20.03468 21.02532
sample estimates:
mean of x
20.53
```

The status bar at the bottom indicates the time as 04:19 PM and the date as 14-12-2025.