

LAB 09

IT24102137

Samaratunga S.A.J.D.M

The screenshot displays the R Studio environment. The top-left pane shows an R script with the following code:

```
1 setwd("H:\\SLIIT\\2nd Year\\1st Sem\\AIML\\LAB\\LAB 09")
2 getwd()
3
4 # Exercise 1
5 # Part 1
6 baking_time <- rnorm(25, mean = 45, sd = 2)
7
8 # Part 2
9 t.test(baking_time, mu = 46, alternative = "less")
10
```

The bottom-left pane shows the console output:

```
> setwd("H:\\SLIIT\\2nd Year\\1st Sem\\AIML\\LAB\\LAB 09")
> getwd()
[1] "H:/SLIIT/2nd Year/1st Sem/AIML/LAB/LAB 09"
> # Exercise 1
> # Part 1
> baking_time <- rnorm(25, mean = 45, sd = 2)
> # Part 2
> t.test(baking_time, mu = 46, alternative = "less")

      One Sample t-test

data:  baking_time
t = -2.6968, df = 24, p-value = 0.006299
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 45.62126
sample estimates:
mean of x
 44.96403
```

The top-right pane shows the Environment tab with the Global Environment. The values section displays:

values
baking_time
num [1:25] 46.9 46.7 41.6 48.2...

The bottom-right pane shows the Files, Plots, Packages, Help, Viewer, and Presentation tabs. The Files tab is active, showing the current directory structure.