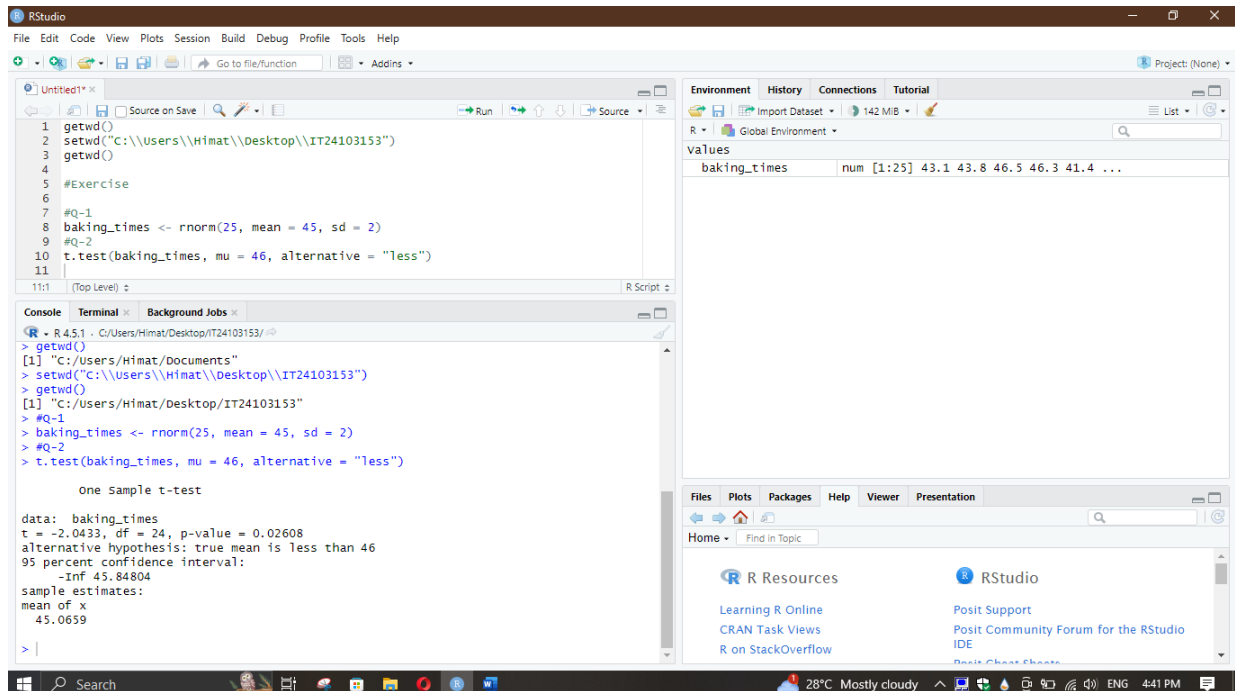


IT2120 - Probability and Statistics

Lab Sheet – 09

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IT24103153



The screenshot shows the RStudio interface with the following components:

- Source Editor:** Contains R code for setting the working directory and performing a t-test.
- Console:** Displays the output of the executed code, including the t-test results.
- Environment:** Shows the global environment with the variable `baking_times` of type `num` (numeric) with 25 values.
- Files:** Shows the file explorer with the current project directory.

```
1 getwd()
2 setwd("C:\\Users\\Himat\\Desktop\\IT24103153")
3 getwd()
4
5 #Exercise
6
7 #Q-1
8 baking_times <- rnorm(25, mean = 45, sd = 2)
9 #Q-2
10 t.test(baking_times, mu = 46, alternative = "less")
11
```

Console Output:

```
> getwd()
[1] "C:/Users/Himat/Documents"
> setwd("C:\\Users\\Himat\\Desktop\\IT24103153")
> getwd()
[1] "C:/Users/Himat/Desktop/IT24103153"
> #Q-1
> baking_times <- rnorm(25, mean = 45, sd = 2)
> #Q-2
> t.test(baking_times, mu = 46, alternative = "less")

    one Sample t-test

data:  baking_times
t = -2.0433, df = 24, p-value = 0.02608
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 45.84804
sample estimates:
mean of x
 45.0659
>
```

Environment:

Variable	Type	Value
baking_times	num [1:25]	43.1 43.8 46.5 46.3 41.4 ...