IT24103913

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Probability and Statistics - IT2120

Lab sheet 09

```
Console   Terminal ×   Background Jobs ×

R ▾ R 4.5.1 · C:/Users/kavee/Desktop/Lab 9/ ⇨
> getwd()
[1] "C:/Users/kavee/Desktop/Lab 9"
> setwd("C:\\Users\\kavee\\Desktop\\Lab 9")
> set.seed(123)
> baking_times <- rnorm (25, mean = 45, sd =2)
> baking_times
 [1] 43.87905 44.53965 48.11742 45.14102 45.25858 48.43013 45.92183 42.46988 43.62629
[10] 44.10868 47.44816 45.71963 45.80154 45.22137 43.88832 48.57383 45.99570 41.06677
[19] 46.40271 44.05442 42.86435 44.56405 42.94799 43.54222 43.74992
> t.test (baking_times,
+         mu = 46,
+         alternative = "less",
+         conf.level = 0.95)

        One Sample t-test

data:  baking_times
t = -2.8167, df = 24, p-value = 0.004776
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
     -Inf 45.58124
sample estimates:
mean of x
 44.93334
```