

Probability & Statistics

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Labsheet 09

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setwd("E:\\SLIIT\\2nd Year 1st Semester\\Probabilities and Statistics\\Lab 09")
#Question
#Part 1
#To generate random numbers from a normal distribution, we can use 'rnorm' command as follows.
set.seed(123)
baking <- rnorm(25, mean = 45, sd = 2)
baking

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> #Question
> #Part 1
> #To generate random numbers from a normal distribution, we can use 'rnorm' command as follows.
> set.seed(123)
> baking <- rnorm(25, mean = 45, sd = 2)
> baking
 [1] 43.87905 44.53965 48.11742 45.14102 45.25858 48.43013 45.92183 42.46988 43.62629 44.10868
[11] 47.44816 45.71963 45.80154 45.22137 43.88832 48.57383 45.99570 41.06677 46.40271 44.05442
[21] 42.86435 44.56405 42.94799 43.54222 43.74992

#Part 2
t.test(baking, mu = 46, alternative = "less")
|

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> t.test(baking, mu = 46, alternative = "less")

      One Sample t-test

data:  baking
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
```