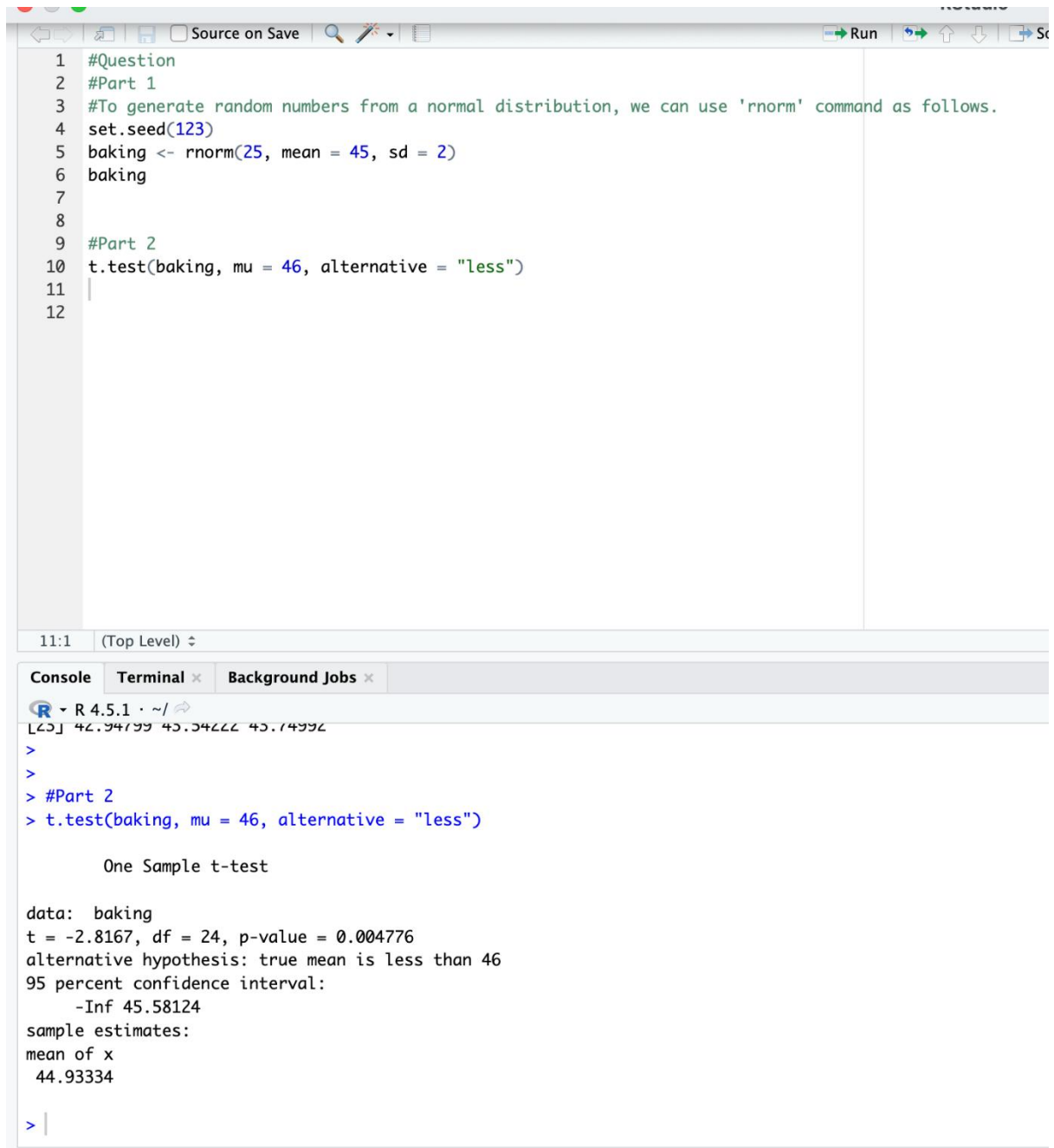# Probability & Statistics

Labsheet 09   IT24104166

```
1   #Question
2   #Part 1
3   #To generate random numbers from a normal distribution, we can use 'rnorm' command as follows.
4   set.seed(123)
5   baking <- rnorm(25, mean = 45, sd = 2)
6   baking
7
8
9   #Part 2
10  t.test(baking, mu = 46, alternative = "less")
11  |
12
```

11:1   (Top Level) ⬍

Console   Terminal ×   **Background Jobs** ×

R ▾ R 4.5.1 · ~/ ⇗

```
[25] 42.94799 45.54222 45.74992
>
>
> #Part 2
> 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

>
```