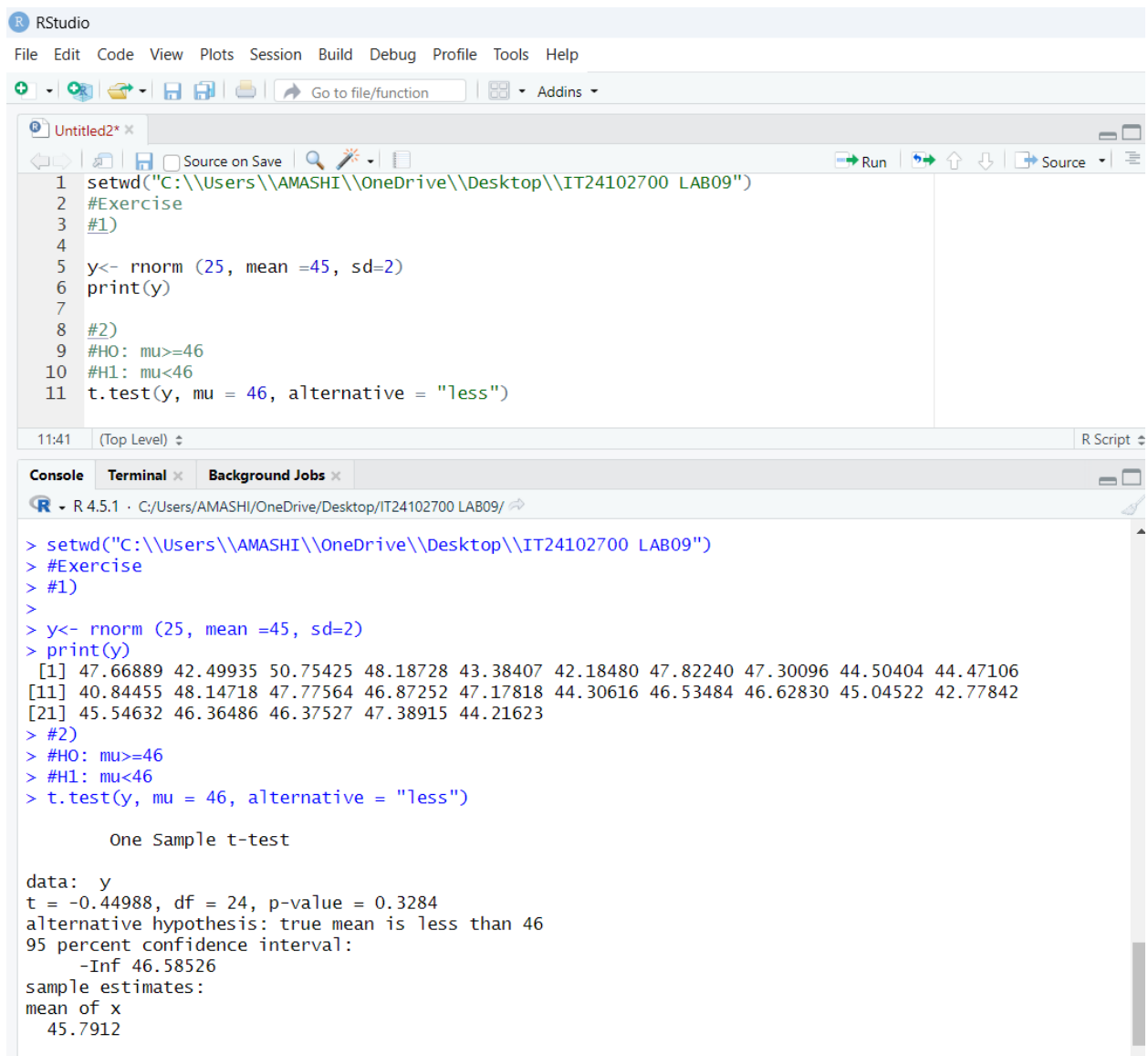


JAYAWARDHANA A.T.G - IT24102700

IT2120



The screenshot shows the RStudio environment. The script editor contains the following R code:

```
1 setwd("C:\\Users\\AMASHI\\OneDrive\\Desktop\\IT24102700 LAB09")
2 #Exercise
3 #1)
4
5 y<- rnorm (25, mean =45, sd=2)
6 print(y)
7
8 #2)
9 #H0: mu>=46
10 #H1: mu<46
11 t.test(y, mu = 46, alternative = "less")
```

The console output shows the execution of the code:

```
> setwd("C:\\Users\\AMASHI\\OneDrive\\Desktop\\IT24102700 LAB09")
> #Exercise
> #1)
>
> y<- rnorm (25, mean =45, sd=2)
> print(y)
 [1] 47.66889 42.49935 50.75425 48.18728 43.38407 42.18480 47.82240 47.30096 44.50404 44.47106
[11] 40.84455 48.14718 47.77564 46.87252 47.17818 44.30616 46.53484 46.62830 45.04522 42.77842
[21] 45.54632 46.36486 46.37527 47.38915 44.21623
> #2)
> #H0: mu>=46
> #H1: mu<46
> t.test(y, mu = 46, alternative = "less")

      One Sample t-test

data:  y
t = -0.44988, df = 24, p-value = 0.3284
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 46.58526
sample estimates:
mean of x
 45.7912
```

EnvironmentHistoryConnectionsTutorial

Import Dataset

197 MiB

List

RGlobal Environment

values

y	num [1:25] 47.7 42.5 50.8 48.2 43.4 ...
---	---