

IT24102390

Labsheet 09

Exercise

(01)

1.

```
setwd("C:\\Users\\DELL\\OneDrive - Sri Lanka Institute of Information Technology\\Desktop\\IT24102390")  
## (01)  
# (i)  
baking_times <- rnorm(25, mean = 45, sd = 2)  
baking_times  
  
> setwd("C:\\Users\\DELL\\OneDrive - Sri Lanka Institute of Information Technology\\Desktop\\IT24102390")  
> ## (01)  
> # (i)  
> baking_times <- rnorm(25, mean = 45, sd = 2)  
> baking_times  
[1] 48.03294 41.90249 46.16923 45.24771 45.43188 45.75928 43.99535 44.33359 42.96285 42.85642 45.60706 45.89642  
[13] 45.10601 46.84453 49.10017 44.01794 40.38166 47.01148 43.58160 43.62398 47.05114 44.43045 42.55856 45.36261  
[25] 44.72222
```

2.

```
# (ii)  
t.test(baking_times, mu = 46, alternative = "less")  
|  
  
> # (ii)  
> t.test(baking_times, mu = 46, alternative = "less")
```

One Sample t-test

```
data: baking_times  
t = -2.8436, df = 24, p-value = 0.004485  
alternative hypothesis: true mean is less than 46  
95 percent confidence interval:  
-Inf 45.55367  
sample estimates:  
mean of x  
44.8795
```