

IT24102325

Lab_09

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```
setwd("C:\\Users\\Muditha\\Desktop\\IT24102325")
getwd()
```

i)

```
> #(i)
> set.seed(123)
> bake_time <- rnorm(25, mean = 45, sd = 2)
> bake_time
[1] 43.87905 44.53965 48.11742 45.14102 45.25858 48.43013 45.92183 42.46988 43.62629 44.10868 47.44816 45.71963 45.80154 45.22137 43.88832
[16] 48.57383 45.99570 41.06677 46.40271 44.05442 42.86435 44.56405 42.94799 43.54222 43.74992
```

ii)

```
> #(ii)
> t.test(bake_time, mu = 46, alternative = "less", conf.level = 0.95)
```

One Sample t-test

```
data:  bake_time
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
```

```
> |
```