

Exercise:

```
setwd('C:\\Users\\vinod\\Desktop\\LABS\\PS\\Lab 9')
getwd()

> setwd('C:\\Users\\vinod\\Desktop\\LABS\\PS\\Lab 9')
> getwd()
[1] "C:/Users/vinod/Desktop/LABS/PS/Lab 9"
```

i)

```
#Exercise

#Q1)
#i.
baking_times<-rnorm(25, mean = 45, sd=2)
print(baking_times)

> baking_times<-rnorm(25, mean = 45, sd=2)
> print(baking_times)
 [1] 47.88479 42.14280 44.84795 46.92813 47.57256 44.17248
 [7] 46.22464 43.47495 45.83216 41.37974 44.04498 47.42690
[13] 44.71786 43.90291 45.34481 44.71099 44.28439 46.68335
[19] 49.84402 39.41042 44.09612 46.40478 47.21988 47.34398
[25] 44.94612
```

ii)

```
#ii.  
test_result <- t.test(baking_times, mu=46, alternative = "less")  
print(test_result)  
_ _ _  
> #ii.  
> test_result <- t.test(baking_times, mu=46, alternative = "less")  
> print(test_result)
```

One Sample t-test

```
data:  baking_times  
t = -1.6902, df = 24, p-value = 0.05197  
alternative hypothesis: true mean is less than 46  
95 percent confidence interval:  
-Inf 46.00939  
sample estimates:  
mean of x  
45.23367
```