PS lab 09

IT24103633

```
#Q1
#Part 1

y <- rnorm(24,mean =45,sd=2 )
y
```

```
> setwd("D:\\SLIIT\\Year 2 Sem 1\\PS\\WEEK10")
> y <- rnorm(24,mean =45,sd=2 )
> y <- rnorm(24,mean =45,sd=2 )
> y
 [1] 43.47640 44.69384 45.99286 46.16105 48.25606 46.10494 46.55474 45.40817 47.53711 44.55679
[11] 43.85958 43.61880 47.08529 46.90632 46.66669 42.79695 48.64278 46.15516 43.55567 46.18591
[21] 48.70608 44.50771 46.48568 48.29074
```

```
#Part 2

t.test(y,mu=46,alternative ="less")
```

```
> t.test(y,mu=46,alternative ="less")

        One Sample t-test

data:  y
t = -0.21123, df = 23, p-value = 0.4173
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
     -Inf 46.53194
sample estimates:
mean of x
 45.92522
```