Q1)

```
> | ≥ | | Source on Save | 🔫 🦯 🔻 📘
                                                                        ■ Run
  setwd("C:\\Users\\Victus\\OneDrive\\Desktop\\IT24100405")
  #Exercise
  #Q1
  #i
  # Generate 25 random baking times
  set.seed(123) # for reproducibility
  x < -rnorm(25, mean = 45, sd = 2)
> #Q1
> #i
> # Generate 25 random baking times
> set.seed(123) # for reproducibility
> x <- rnorm(25, mean = 45, sd = 2)</pre>
 [1] 43.87905 44.53965 48.11742 45.14102 45.25858 48.43013 45.92183 42.46988
 [9] 43.62629 44.10868 47.44816 45.71963 45.80154 45.22137 43.88832 48.57383
[17] 45.99570 41.06677 46.40271 44.05442 42.86435 44.56405 42.94799 43.54222
[25] 43.74992
Q2)
 #ii
 # Hypothesis test: HO: mu = 46 vs H1: mu < 46
 t.test(x, mu = 46, alternative = "less")
  data: x
  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
  11 03331
```