```
# i. Generate a random sample of size 25
 set.seed(123) # for reproducibility
baking_time <- rnorm(n = 25, mean = 45, sd = 2)
t_test_result <- t.test(baking_time, mu = 46, alternative = "less")
  print(t_test_result)
         One Sample t-test
data: baking_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
  t_test_result$statistic
                                   # Test statistic
-2.81669
 t_test_result$p.value
                                   # P-value
[1] 0.004775633
> t_test_result$conf.int
[1] -Inf 45.58124
attr(,"conf.level")
[1] 0.95
```

