Exercise

1

I.

Untitled

<functions>

Help search

```r
setwd("/Users/dumeesha/Desktop/IT24100338")
getwd()
setwd("/Users/dumeesha/Desktop/IT24100338")

set.seed(123)  # for reproducible results
baking_times <- rnorm(25, mean = 45, sd = 2)
print(baking_times)

test_result <- t.test(baking_times, mu = 46, alternative = "less")
print("Generated sample:")
print(baking_times)

print("Hypothesis test results:")
print(test_result)
```

```
> set.seed(123)  # for reproducible results
> baking_times <- rnorm(25, mean = 45, sd = 2)
> print(baking_times)
 [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 48.57383 45.99570 41.06677 46.40271
[20] 44.05442 42.86435 44.56405 42.94799 43.54222 43.74992
> test_result <- t.test(baking_times, mu = 46, alternative = "less")
> print("Generated sample:")
[1] "Generated sample:"
> print(baking_times)
 [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 48.57383 45.99570 41.06677 46.40271
[20] 44.05442 42.86435 44.56405 42.94799 43.54222 43.74992
>
```

II.

```r
test_result <- t.test(baking_times, mu = 46, alternative = "less")
print("Generated sample:")
print(baking_times)

print("Hypothesis test results:")
print(test_result)
```