Reg No – IT24100871

Module – PS

Lab 09

Exercise

1)

(i)

```
Console   Terminal ×   Background Jobs ×
R ▾ R 4.5.1 · C:/Users/ASUS TUF/Coding/R/
> #1
> #i
> baking_time <- rnorm(25, mean = 45, sd = 2)
> baking_time
 [1] 43.54293 43.89037 45.00744 44.02917 45.01127 46.64886 41.95958
 [8] 45.33504 44.28815 43.36950 45.09595 45.95095 48.88878 45.98578
[15] 43.80709 45.53008 46.56832 45.79445 45.01614 45.28205 43.01306
[22] 45.46495 45.42295 48.14677 46.64661
>
```

(ii)

```
Console   Terminal ×   Background Jobs ×
R ▾ R 4.5.1 · C:/Users/ASUS TUF/Coding/R/
> #ii
> t.test(baking_time, mu=46, alternative = "less")

        One Sample t-test

data:  baking_time
t = -2.6236, df = 24, p-value = 0.007443
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
     -Inf 45.71746
sample estimates:
mean of x
 45.18785
```