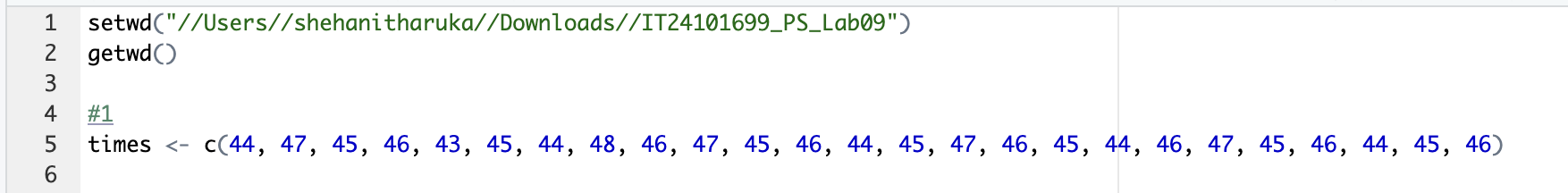
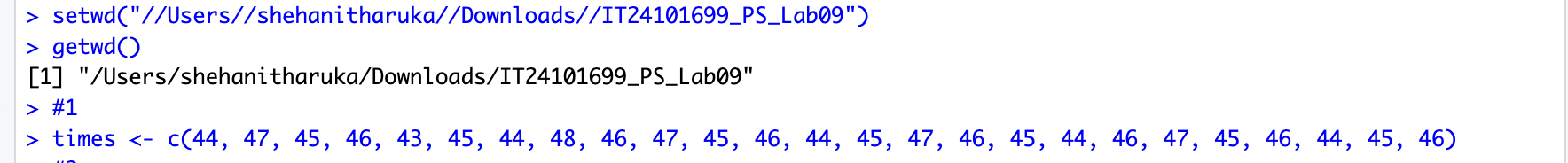
**Reg Number**: IT23269248

**Name:** Amararathna M.S.L.L

1. Assume that the time taken to bake a batch of cookies is normally distributed with mean 45 minutes and standard deviation 2 minutes.

i. Generate a random sample of size 25 for the baking time.





ii. Test whether the average baking time is less than 46 minutes at a 5% level of significance.



