**Probability and Statistics - IT2120**

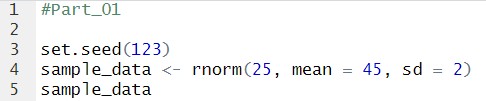
**Name:Ranaweera K.R**

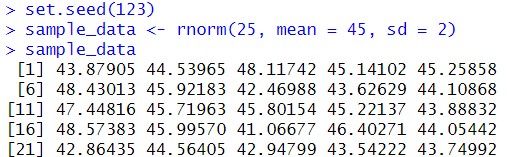
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**Exercise**

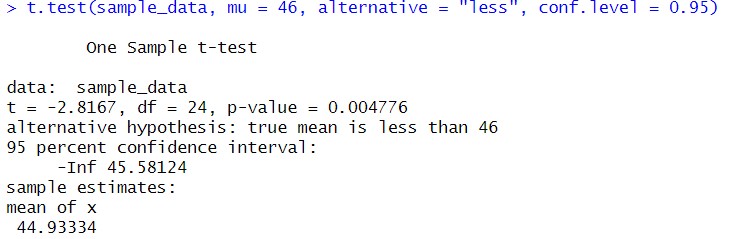
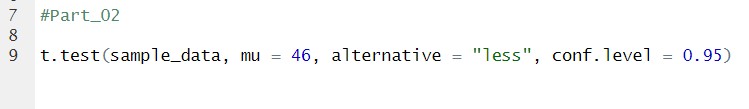
**1. Assume that the time taken to bake a batch of cookies is normally distributed with mean 45 minutes and standard deviation 2 minutes.**

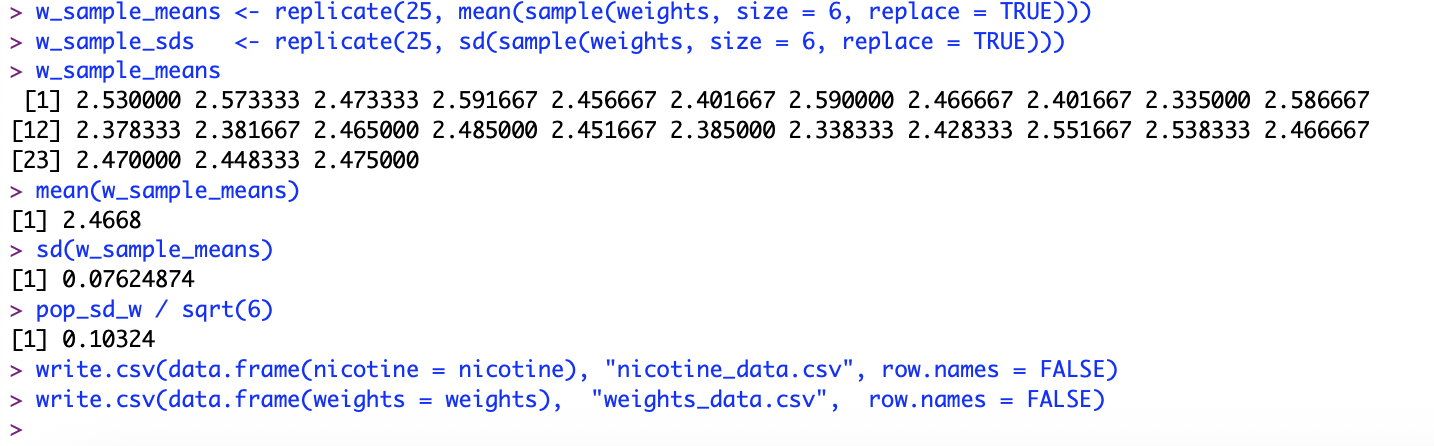
1. **Generate a random sample of size 25 for the baking time.**

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



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