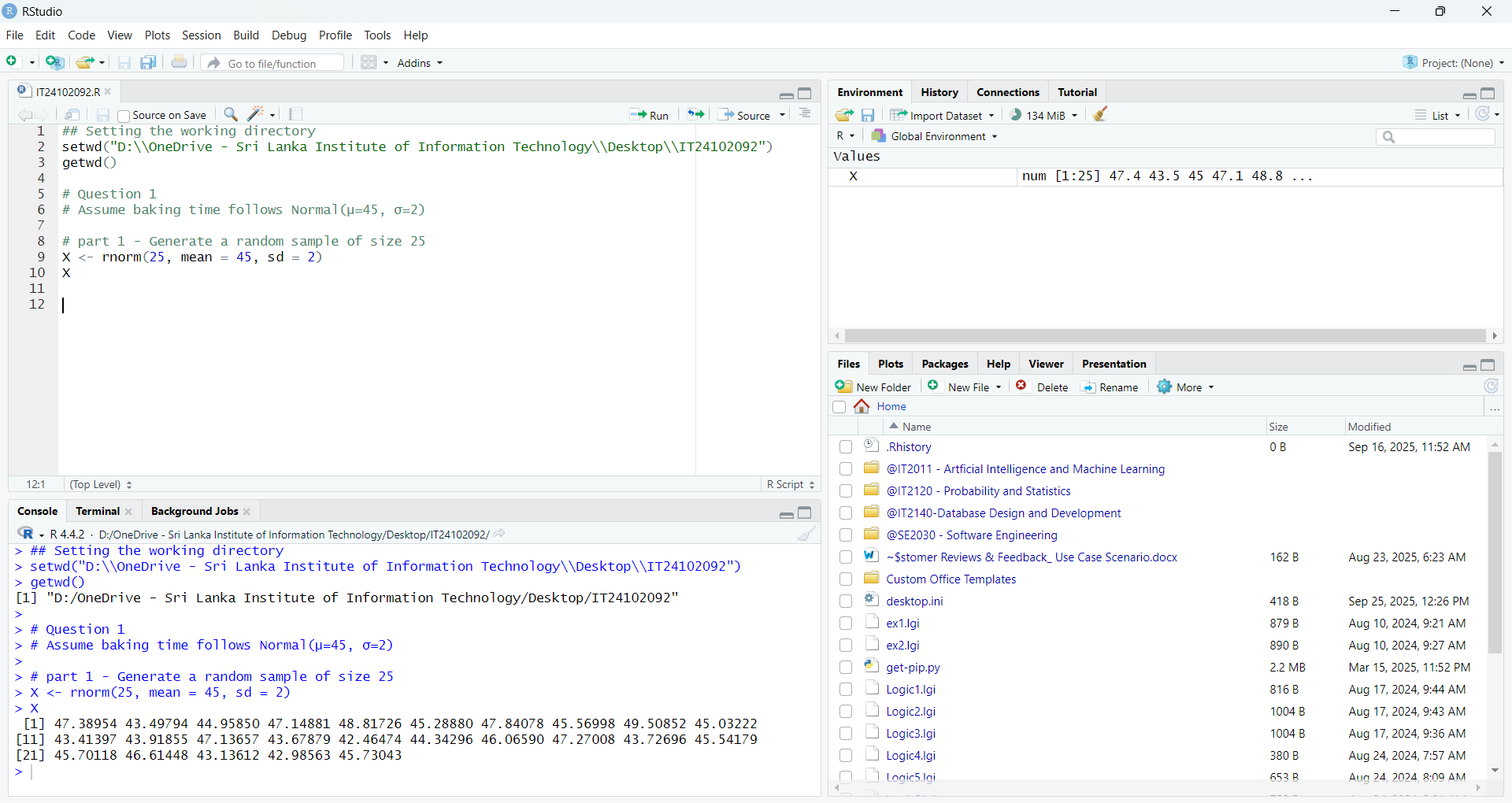
**Exercise**  
  
1. Assume that the time taken to bake a batch of cookies is normally distributed with mean 45 minutes and standard deviation 2 minutes.   
  
i. Generate a random sample of size 25 for the baking time.   
  
  
  
  
ii. Test whether the average baking time is less than 46 minutes at a 5% level of significance.  
  
A screenshot of a computer

AI-generated content may be incorrect.