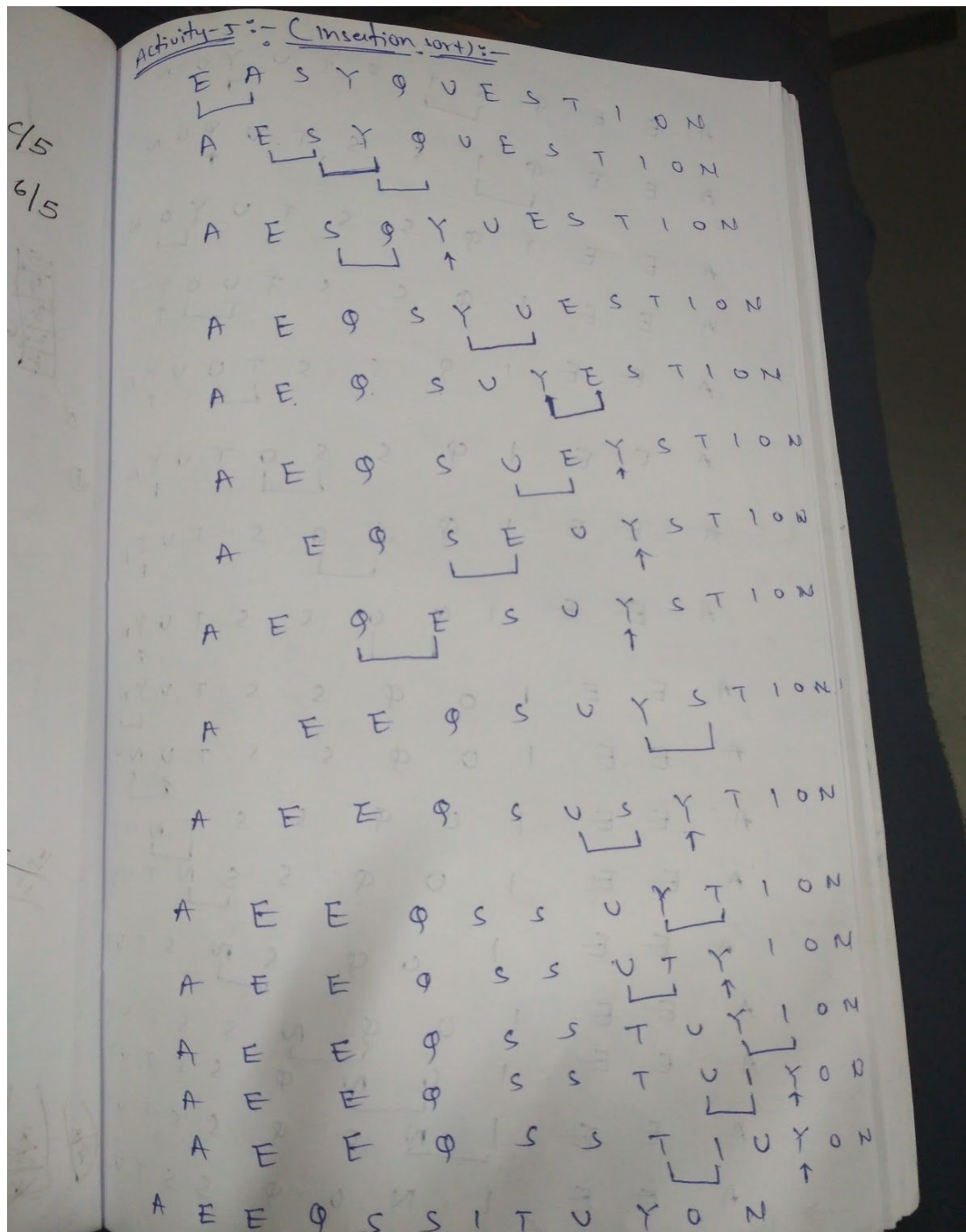


Activity : 5:

Insertion sort: (This has complexity  $N^2$ )



A E E  $\emptyset$  S I S T U Y O N  
 A E E  $\emptyset$  I S S T U Y O N  
 A E E I  $\emptyset$  S S T U Y O N  
 A E E I  $\emptyset$  S S T U O Y N  
 A E E I  $\emptyset$  S S T O U Y N  
 A E E I  $\emptyset$  S S O T U Y N  
 A E E I  $\emptyset$  S O S T U Y N  
 A E E I  $\emptyset$  O S S T U Y N  
 A E E I O  $\emptyset$  S S T U Y N  
 A E E I O  $\emptyset$  S S T U N Y  
 A E E I O  $\emptyset$  S S T N U Y  
 A E E I O  $\emptyset$  S S N T U Y  
 A E E I O  $\emptyset$  S N S T U Y  
 A E E I O  $\emptyset$  N S S T U Y  
 A E E I O N  $\emptyset$  S S T U Y  
 A E E I N O  $\emptyset$  S S T U Y  
 A E E I N O  $\emptyset$  S S T U Y

→ This sort has the complexity  $n^2$ .