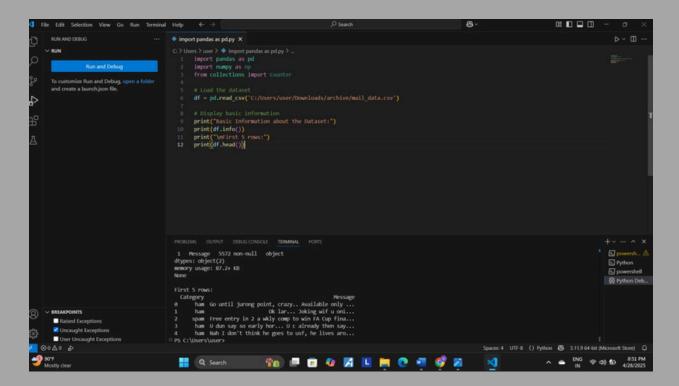
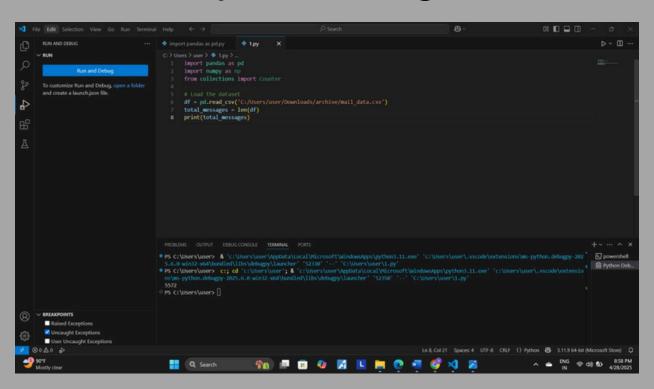
EDS Activity:-

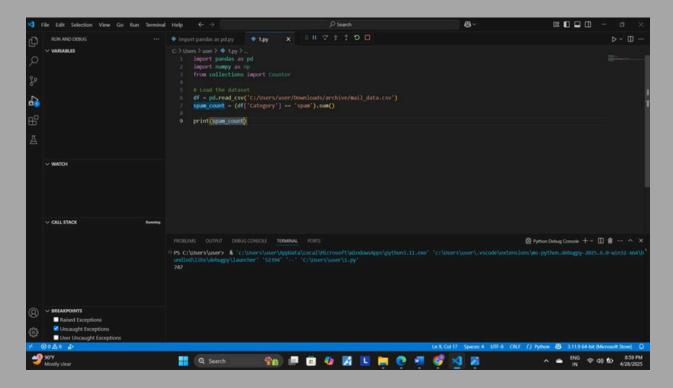
- Name: Kunal Birari
- Roll no.:CS7-27
- PRN:202401080049



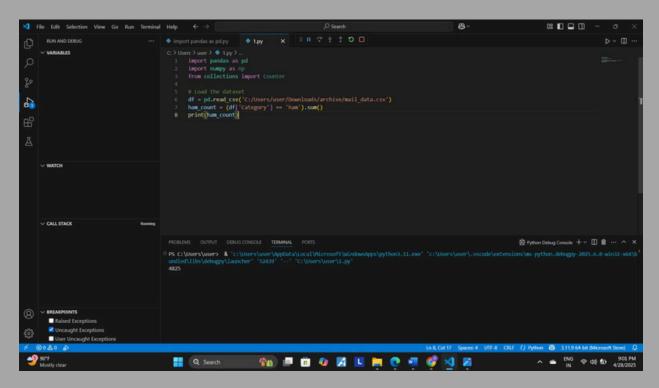
1. How many total messages are there?



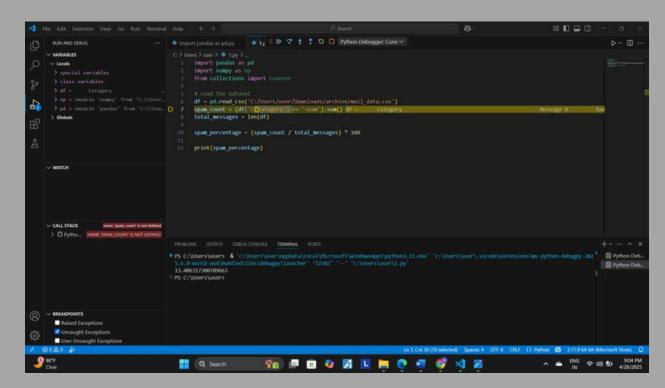
2. How many messages are spam?



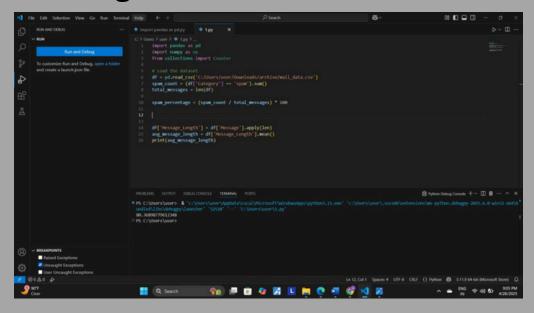
3. How many messages are ham?



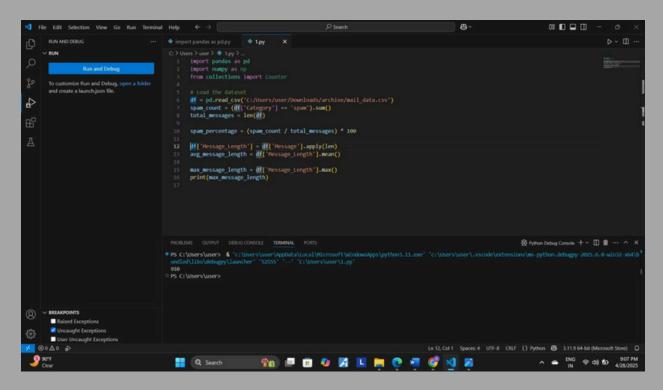
4. What is the percentage of spam messages?



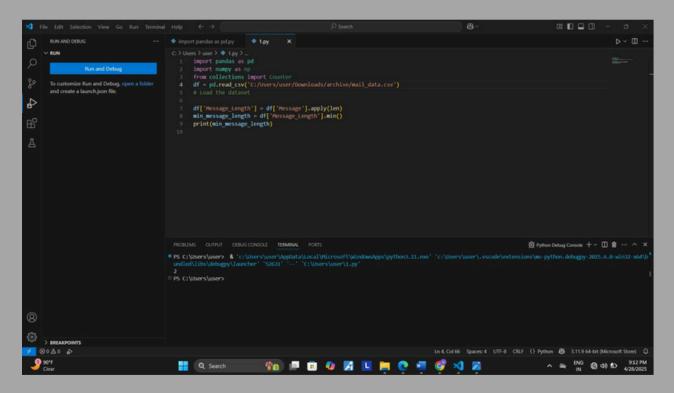
5. What is the average length of message?



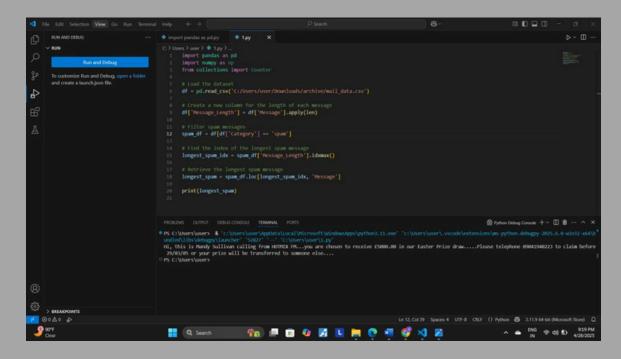
6. What is the maximum message length?



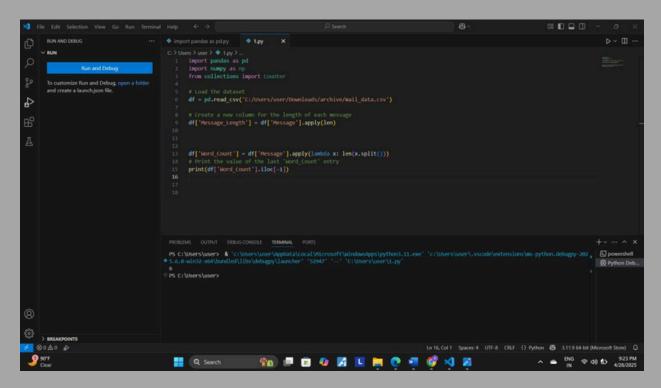
7. What is the minimum message length?



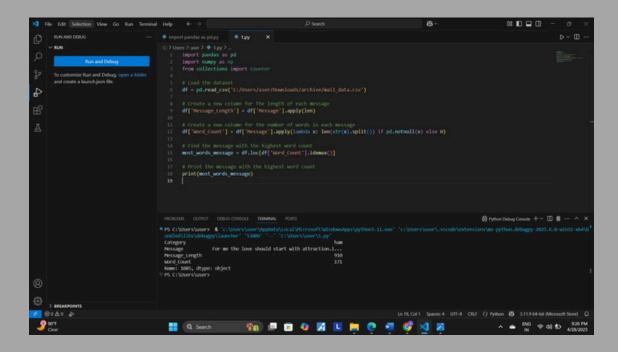
8. What is the longest spam message?



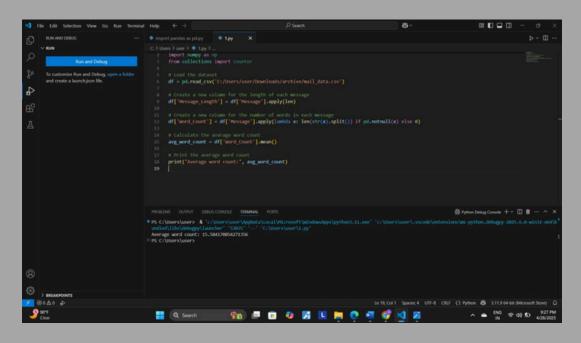
10. Create a column with word counts for each message.



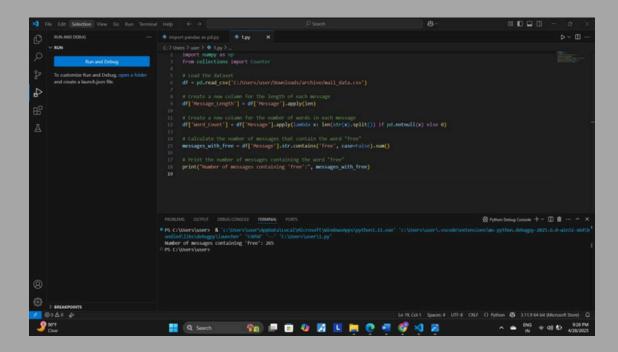
11. Find the message with the most words.



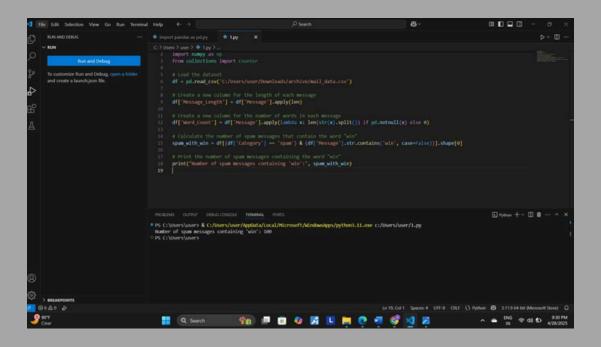
12. What is the average word count per message?



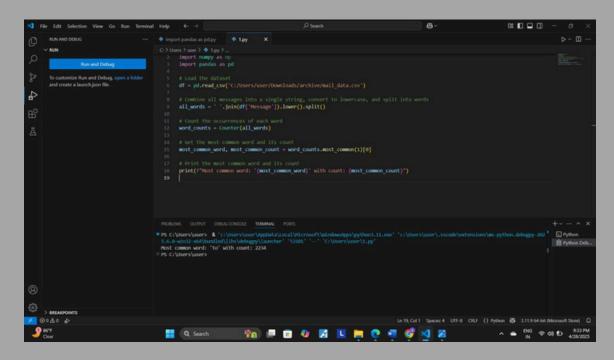
13. Find how many messages contain the word "free".



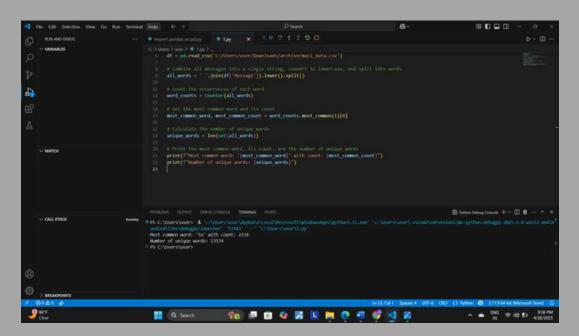
14. Find how many spam messages contain the word "win".



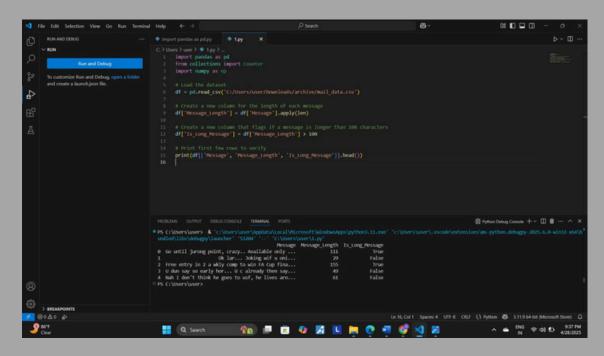
15. What is the most common word in the dataset?



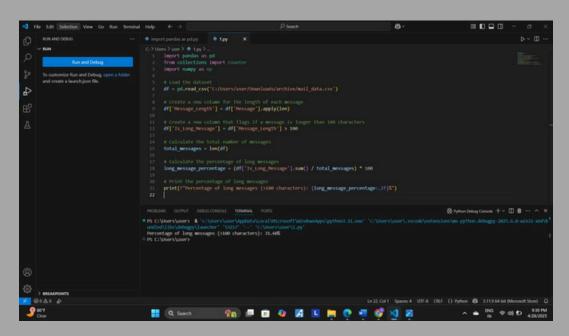
16. How many unique words are there across all messages?



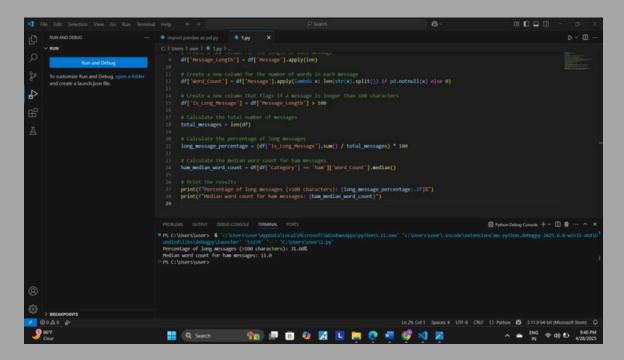
17. Create a boolean column: Is the message length > 100?



18. Find the percentage of long messages (>100 characters).



19. What is the median word count of ham messages?



20. Find the standard deviation of message lengths.

