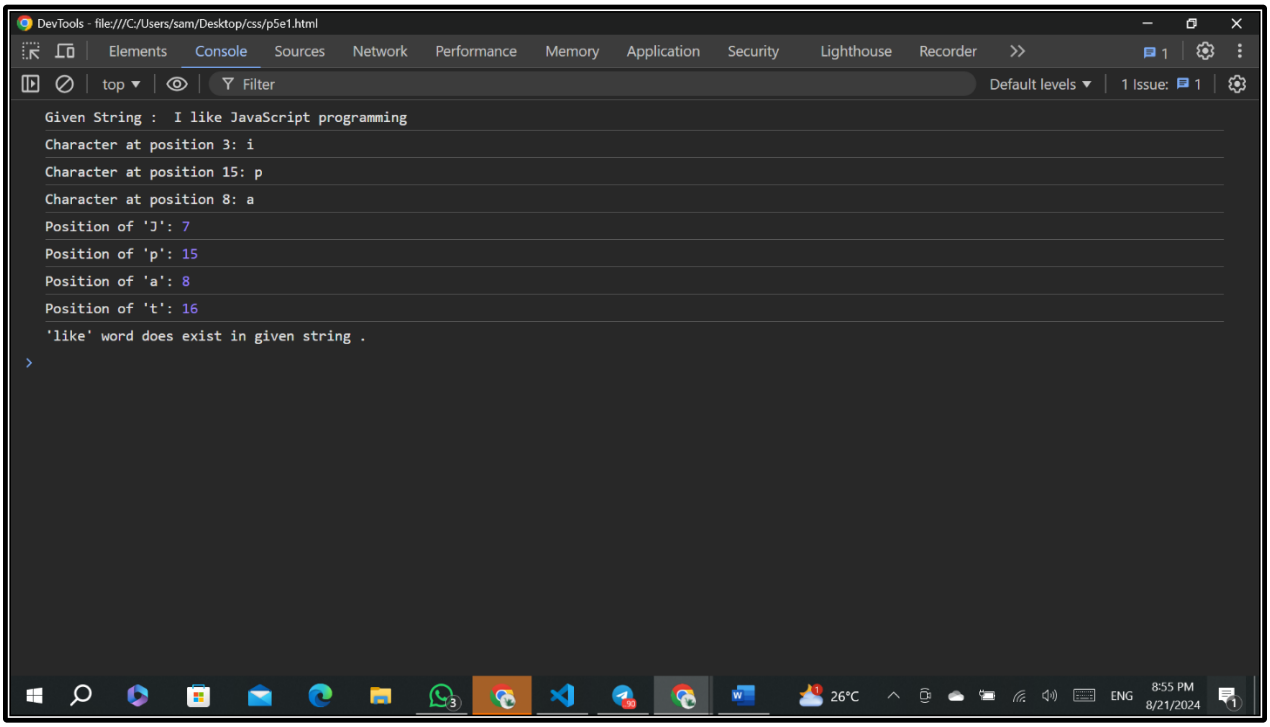
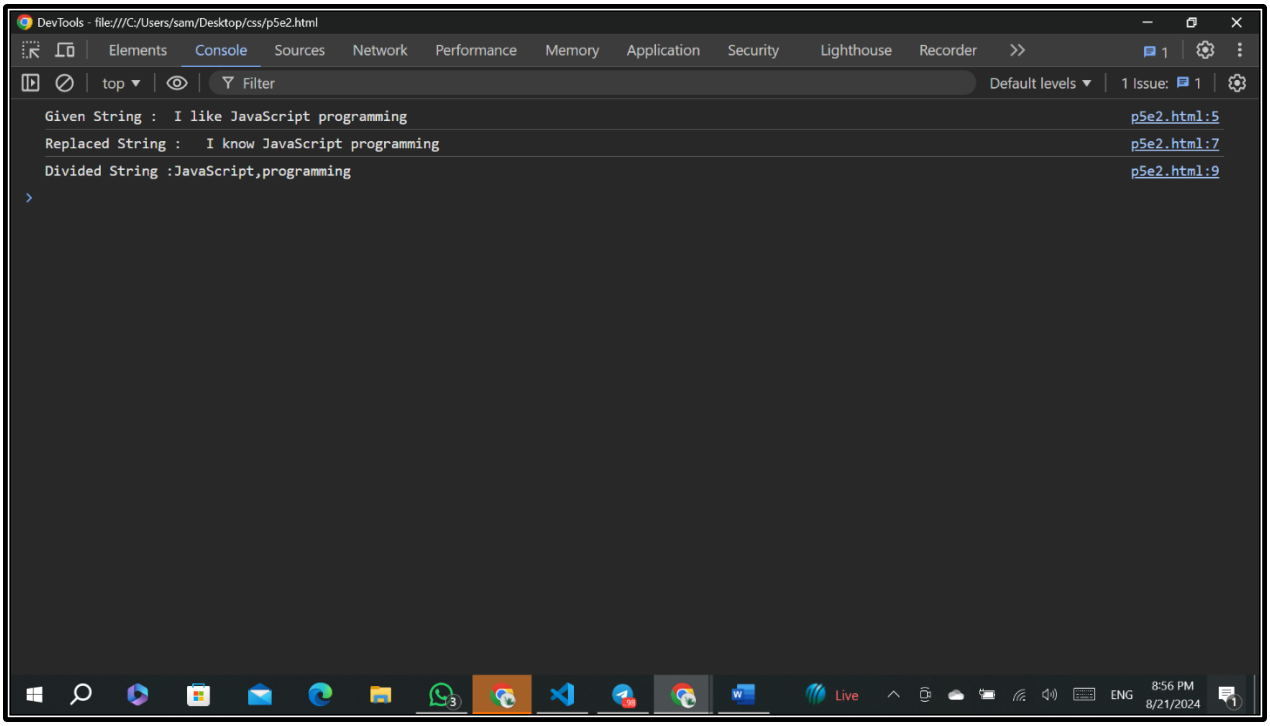
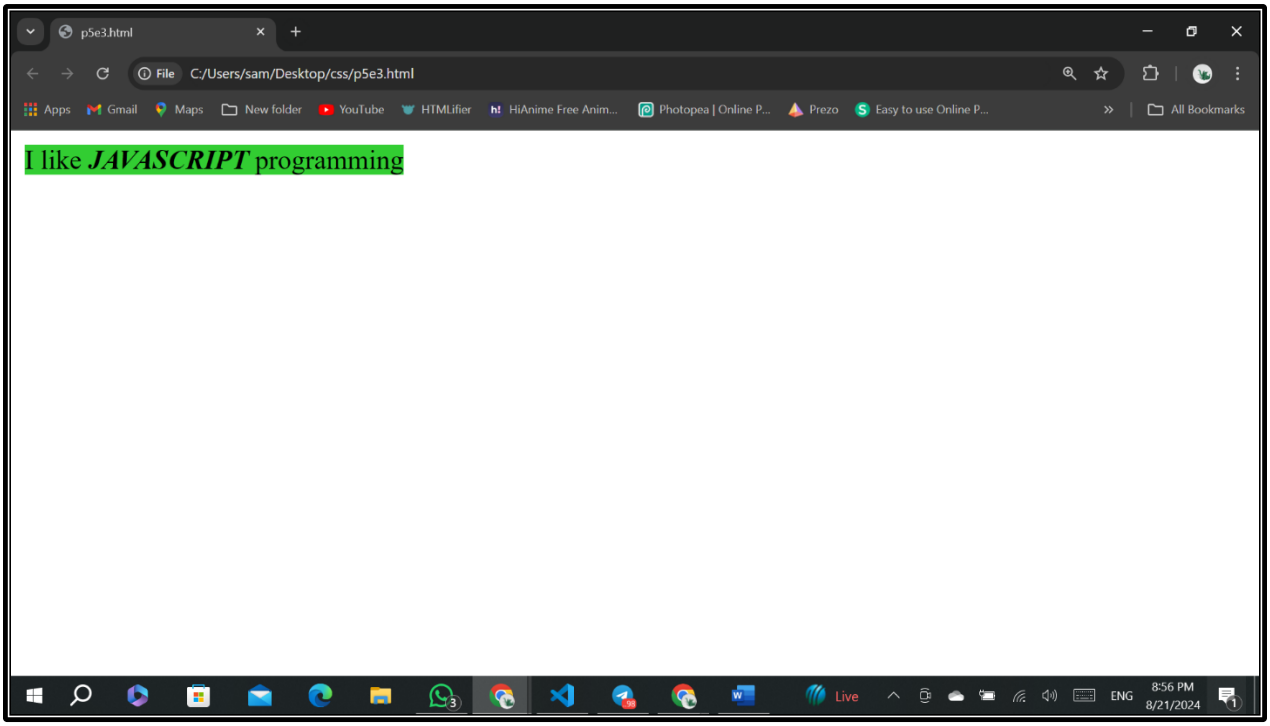
Question 1 output:



Question 2 output:



Question 3 output: