FAIZAN CHOUDHARY

20BCS021

PROGRAMMING LAB

1st November 2021

CODE: (code pasted in this format for readability)

```
#include <stdio.h>
#include <stdlib.h>
int main()
   char ch = 'y';
   char text[400];
   int i=0, j, c=0;
    printf("\nFAIZAN CHOUDHARY\n20BCS021\n\n");
   do
        printf("\nEnter the piece of text (terminating with $): \n");
        scanf("%[^$]", &text);
        long no_of_spaces = 0, no_of_tabs =0, no_of_sentences = 0, no_of_vowels = 0;
        // long no_of_lines = 0;
        for (i=0; text[i]!='\0'; i++)
            if (text[i]== ' ')
            no of spaces++;
           if (text[i]== '\t')
            no_of_tabs++;
            if (text[i]== '.' || text[i]== '!' || text[i]== '?')
            no_of_sentences++;
            // no_of_lines++;
            if (text[i]=='A' || text[i]=='a' || text[i]=='E' || text[i]=='e' ||
text[i]=='I' || text[i]=='i' || text[i]=='0' || text[i]=='0' || text[i]=='U' ||
text[i]=='u')
            no_of_vowels++;
        // to format the extra spaces to one space
        i=0, j=0;
        char second[400];
        while (text[i] != '\0')
```

```
if (text[i]== ' ')
            int temp = i+1;
            if (text[temp] != '\0')
                while (text[temp] == ' ' && text[temp] != '\0')
                    if (text[temp] == ' ')
                     i++;
                    temp++;
        second[j] = text[i];
        i++;
       j++;
   second[j]='\0';
   printf("\nNumber of spaces : %d\n", no_of_spaces);
   printf("Number of tabs: %d\n", no_of_tabs);
   printf("Number of sentences: %d\n", no_of_sentences);
   printf("Number of vowels: %d\n", no_of_vowels);
   printf("\nFormatted piece of text:\n");
   for (i=0; second[i]!='\0'; i++)
    printf("%c", second[i]);
   printf("\n");
   A:
   printf("\nDo you want to enter more? (Y/N): ");
   getchar();
   getchar();
   scanf("%c", &ch);
} while (ch == 'y' || ch == 'Y');
return 0;
```

OUTPUT:

```
FAIZAN CHOUDHARY
20BCS021
Enter the piece of text (terminating with $):
Hello I am Faizan Choudhary, a student of Jamia Millia Islamia,
                                                               New Delhi.
I live in Mumbai and I love reading books.
How are you?
I hope you are doing great!$
Number of spaces : 30
Number of tabs: 2
Number of sentences: 4
Number of vowels: 59
Formatted piece of text:
Hello I am Faizan Choudhary, a student of Jamia Millia Islamia,
                                                               New Delhi.
I live in Mumbai and I love reading books.
How are you?
I hope you are doing great!
Do you want to enter more? (Y/N):
```