```
Script started on 2024-02-08 15:27:56-06:00 [TERM="xterm-256color" TTY="/dev/pts/0" COLUMNS="199" LINES="47"]
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ pwd
[?2004l
/home/jovyan/CS2/Lab/Lab_6
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ ls-[K -ls
[?2004l
total 28
24 -rwxr-xr-x 1 jovyan users 23864 Feb  8 11:55 [0m[01;32ma.out[0m
 4 -rw-r--r-- 1 jovyan users   716 Feb  8 11:55 runlength.cpp
 0 -rw-r--r-- 1 jovyan users     0 Feb  8 15:27 Sabin_Lab_6.log
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ -[Kls -la
[?2004l
total 36
drwxr-sr-x 2 jovyan users  4096 Feb  8 15:27 [0m[01;34m.[0m
drwxr-sr-x 9 jovyan users  4096 Feb  8 11:15 [01;34m..[0m
-rwxr-xr-x 1 jovyan users 23864 Feb  8 11:55 [01;32ma.out[0m
-rw-r--r-- 1 jovyan users   716 Feb  8 11:55 runlength.cpp
-rw-r--r-- 1 jovyan users     0 Feb  8 15:27 Sabin_Lab_6.log
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ cat -n
runlength.cpp
[?2004l
     1  /*
     2  Tyler Sabin
     3  runlength.cpp
     4  Section 004
     5  this program will count the number of the same letter in a row
     6  */
     7  #include <iostream>
     8  #include <string>
     9
    10  int main(){
    11
    12      std::string tempstring{""};
    13      int count{1};
    14      std::cout << "Enter text to compress: ";
    15      std::getline(std::cin, tempstring);
    16
    17      int len = tempstring.length();
    18
    19      for(int index = 0; index < len; index++){
    20          if(tempstring[index] == ' '){
    21              std::cout << ' ';
    22              count = 1;
    23          } else if(tempstring[index] == tempstring[index+1] && tempstring[index] != ' '){
    24              count ++;
    25          } else{
    26              std::cout << count << tempstring[index];
    27              count = 1;
    28          }
    29      }
    30      std::cout << '\n';
    31
    32  }[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$
g++ -Wall -Wextra -Werror runlength.cpp -o rle
[?2004l
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ /rle
[?2004l
bash: /rle: No such file or directory
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ ./rle
[?2004l
Enter text to compress: a
1a
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ ./rle
[?2004l
Enter text to compress: aaaabbbbcccceee
4a4b4c3e
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ What is
your favorite color?
[?2004l
bash: What: command not found
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ What is
your favorite color?./rle[K
[?2004l
Enter text to compress: What is your favorite color?
1W1h1a1t 1i1s 1y1o1u1r 1f1a1v1o1r1i1t1e 1c1o1l1o1r1?
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ ./rle
[?2004l
Enter text to compress: asdasdaseweeeee
1a1s1d1a1s1d1a1s1e1w5e
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ ./rle
[?2004l
Enter text to compress: TylerSabin
1T1y1l1e1r1S1a1b1i1n
```

```
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ ./rle
[?2004l
Enter text to compress: Computer Science 2
1C1o1m1p1u1t1e1r 1S1c1i1e1n1c1e 12
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_6[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_6[00m$ exit
[?2004l
exit

Script done on 2024-02-08 15:30:31-06:00 [COMMAND_EXIT_CODE="0"]
```