```
Script started on 2023-10-26 14:38:13-05:00 [TERM="xterm" TTY="/dev/pts/2" COLUMNS=
a_vitale3@ares:~$ pwd
/home/students/a_vitale3
a_vitale3@ares:~$ cat DadWhenAreYouDad.info
Name: Andrew Vitale

Class: CSC121


Activity: Dad When are You Dad

Level: 6



Description:


tells the user how many words and letter count are in their input.

a_vitale3@ares:~$ show-code DadWhenAreYouDad.cpp


DadWhenAreYouDad.cpp:


    1  #include <iostream>
    2
    3  using namespace std;
    4
    5  const string confirmationYes[] = { "y","yes","yea" };
    6
    7  short int letterOccurances[26];
    8
    9  bool confirm(string test);
   10  bool isletter(char text);
   11  unsigned short int findNumOfWords(string text);
   12  unsigned short int findall(string text, char find);
   13
   14  int main(void)
   15  {
   16          string input, stringIn;
   17          unsigned short int output = 0;
   18          cout << "Welcome to the String Comparing Program\n";
   19          while (confirm(input))
   20          {
   21                  cout << "\nString input: ";
   22                  cin >> ws;
   23                  getline(cin, input);
   24                  stringIn.clear();
   25                  stringIn = input;
   26                  output = findNumOfWords(stringIn);
   27                  cout << "\nYour line contained " << output << " words." <<
   28                  cout << "\nWould you like to print a list of the amount of
   29                  cin >> ws;
   30                  getline(cin, input);
   31                  if (confirm(input))
   32                  {
   33                          cout << "\nThe following letters occurred the indi
   34                          for (int i = 0; i < 26; i++)
   35                          {
   36                                  letterOccurances[i] = findall(stringIn, cha
   37                                  if (bool(findall(stringIn, char(i + 97))) =
   38                                  {
   39                                          printf("\n\t%c: %i", char(i + 97),
   40                                  }
   41                          }
   42                  }
   43          cout << "\nWould you like to input another string? ";
   44          cin >> ws;
   45          getline(cin, input);
   46          }
   47          cout << "\nThank you for using the String Comparing Program" << en
   48          return 0;
   49  }
   50
   51  bool isletter(char test)
   52  {
   53          for (unsigned short int ch = 0; ch < 26; ch++)
   54          {
   55                  if (tolower(test) == char(ch + 97))
   56                  {
   57                          return true;
   58                  }
   59          }
   60          return false;
   61  }
   62
   63  unsigned short int findNumOfWords(string text)
   64  {
   65          unsigned short int amtOfWords = 0;
   66          for (unsigned long int i = 0; i < text.length(); i++)
   67          {
   68                  if (text[i+1] == '\'' || text[i + 1] == '"' || text[i + 1]
   69                  {
   70                          i++;
   71                  }
   72                  if (isletter(text[i]) && !isletter(text[i+1]) )
   73                  {
   74                          amtOfWords++;
   75                  }
   76          }
   77          return amtOfWords;
   78  }
   79
   80  unsigned short int findall(string text, char find)
```

```
 81  {
 82          unsigned short int found = 0;
 83          for (unsigned long int i = 0; i < text.length(); i++)
 84          {
 85                  if (tolower(text[i]) == tolower(find))
 86                  {
 87                          found++;
 88                  }
 89          }
 90          return found;
 91  }
 92
 93  bool confirm(string test)
 94  {
 95          for (unsigned short int search = 0; search < 11; search++)
 96          {
 97                  if (test == confirmationYes[search])
 98                  {
 99                          return true;
100                  }
101          }
102          return false;
103  }
```
a_vitale3@ares:~$ CPP DadWhenAreYouDad
DadWhenAreYouDad.cpp***

a_vitale3@ares:~$ ./DadWhenAreYouDad.out
Welcome to the String Comparing Program

String input: hello world!

Your line contained 2 words.

Would you like to print a list of the amount of letters used in the words? y

The following letters occurred the indicated number of times:
        d: 1
        e: 1
        h: 1
        l: 3
        o: 2
        r: 1
        w: 1
Would you like to input another string? yes

String input: just some random words and letters

Your line contained 6 words.

Would you like to print a list of the amount of letters used in the words? yes

The following letters occurred the indicated number of times:
        a: 2

        d: 3
        e: 3
        j: 1
        l: 1
        m: 2
        n: 2
        o: 3
        r: 3
        s: 4
        t: 3
        u: 1
        w: 1
Would you like to input another string? y

String input: just some more stuff

Your line contained 4 words.

Would you like to print a list of the amount of letters used in the words? no

Would you like to input another string? yes

String input: and even more stuff

Your line contained 4 words.

Would you like to print a list of the amount of letters used in the words? n

Would you like to input another string? no

Thank you for using the String Comparing Program
a_vitale3@ares:~$ exit
exit

Script done on 2023-10-26 14:41:26-05:00 [COMMAND_EXIT_CODE="0"]