UNIVERSITY OF ENGINEERING AND TECHNOLOGY, TAXILA



SOFTWARE ENGINEERING

LAB-14 SOLUTION

SUBMITTED TO: ENGR.SABA AWAN

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REG NO : <u>20-SE-56</u>

TASK-1

Write C++ Code that searches for every instance of the string "cat" in a given string and counts the total number of instances.

SOLUTION

CODE

```
** 20-55-56 LAB-14 TASK SOLUTION-copt [20-55-56 LAB-14 TASK SOLUTION) - Code:Blocks 20:28
File Edit View Search Project Build Debug Fortran wsSmith Tools Tools- Plugins DouyBlocks Settings Help

**Code Settings Help

**C
                                                                                                                                                                                                                                                                                                                            84
                                                                                               #include<iostream>
   Nonspace 20-SE-56 LAB-14 SOLUTION
                                                                                               using namespace std;
                                                                                           int main(){
                                                                        4
                                                                                                                                string named input is declared for getting string from user
                                                                        5
                                                                                                              string in_put;
                                                                                                              int \ i = 0; //integer data type to count number of time cat appears
                                                                                                              int cat_count = 0;
//used get line function to read string or line from input stream
                                                                        8
                                                                         9
                                                                     10
                                                                                                                                            getline(cin, in_put, '\n');
                                                                     11
                                                                                                                                             for(i = in_put.find("cat", 0); i != string::npos; i = in_put.find("cat", i))
                                                                     13
                                                                                                              //used increment to move next to last detected instance of required word
                                                                     14
                                                                    15
                                                                                                                                            cat_count++;
                                                                     16
                                                                                                                                                           i++;
                                                                     17
                                                                                                                             cout<<endl<<cat count<<endl;</pre>
                                                                     18
                                                                     19
                                                                                                                             cout<<"----
                                                                     20
                                                                     21
                                                                                                                             return 0;
                                                                     22
                                                    🏿 Code:Blocks X 🔍 Search results X 🧗 Cocc X 🔅 Build log X 🕴 Build log X 🕴 Build messages X 📝 CppCheck/Vera++ X 🧗 CppCheck/Vera++ x 📝 CppCheck/Vera++ x 📝 Cscope X 💆 Debugger X 💆 DouyBlocks X 🝵 Fortran info X 🐁 Closed files list X 🥋 Thread search X
                                                                                                                                                                                                     C/C++ Windows (CR+LF) WINDOWS-1252 Line 18, Col 1, Pos 589 Insert Modified Read/Write default
```

OUTPUT

```
■ "C:\CodeBlocks\projects\20-SE-56 LAB-14 SOLUTION\bin\Debug\20-SE-56 LAB-14 SOLUTION.exe" — X

i am a cat lover,but black cat is my favrt,that cat is from another country,all other cat are normal

4

Process returned 0 (0x0) execution time: 2.220 s

Press any key to continue.
```