UNIVERSITY OF ENGINEERING AND TECHNOLOGY,TAXILA

SOFTWARE ENGINEERING

LAB-14 SOLUTION

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REG NO   : 20-SE-56

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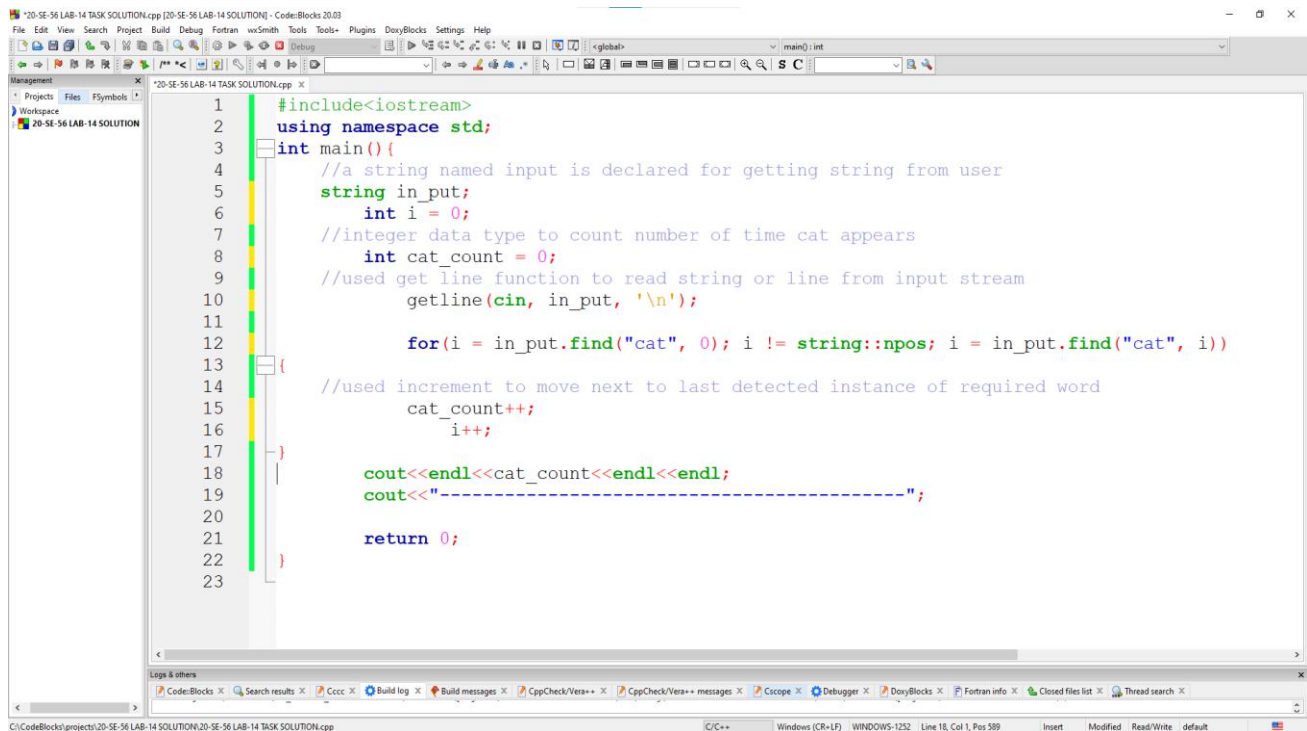# TASK-1

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

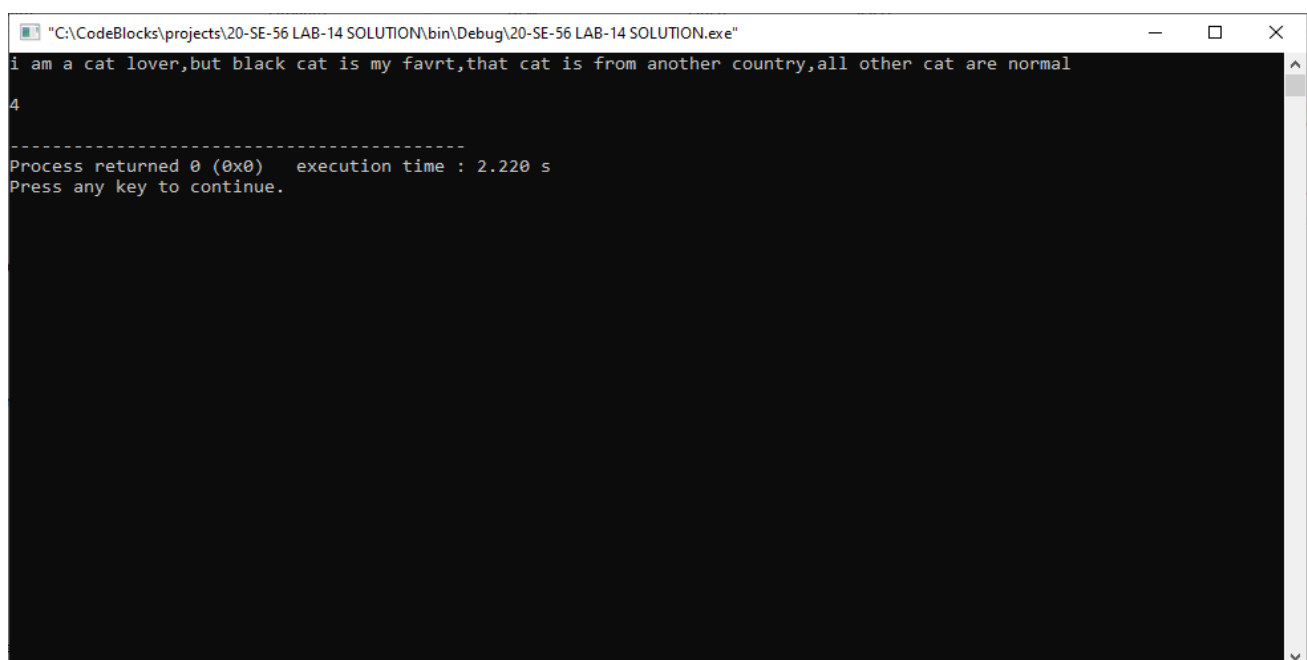## SOLUTION

CODE

```cpp
#include<iostream>
using namespace std;
int main(){
    //a string named input is declared for getting string from user
    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
            getline(cin, in_put, '\n');

        for(i = in_put.find("cat", 0); i != string::npos; i = in_put.find("cat", i))
        {
        //used increment to move next to last detected instance of required word
            cat_count++;
                i++;

        }
        cout<<endl<<cat_count<<endl<<endl;
        cout<<"-----------------------------------------";

        return 0;
}
```

OUTPUT

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

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Process returned 0 (0x0)   execution time : 2.220 s
Press any key to continue.
```