SESSIONAL TEST - 2

MCA (Semester - II)



Name: Arzoo Khan

_

Roll No: 20MCA011

Paper Code: CSC26

Paper Title: <u>Lab-III (OOP)</u>

Date: 10-07-2021

Time: <u>12:00 PM – 1:00 PM</u>

1. Write a function in C++ to count and display the number of lines not starting with alphabet 'A' present in a text file "STORY.TXT". Example:
 If the file "STORY.TXT" contains the following lines:
 The rose is red.
 A girl is playing there.
 Numbers are not allowed in the password.
 There is a playground.

SOURCE CODE:

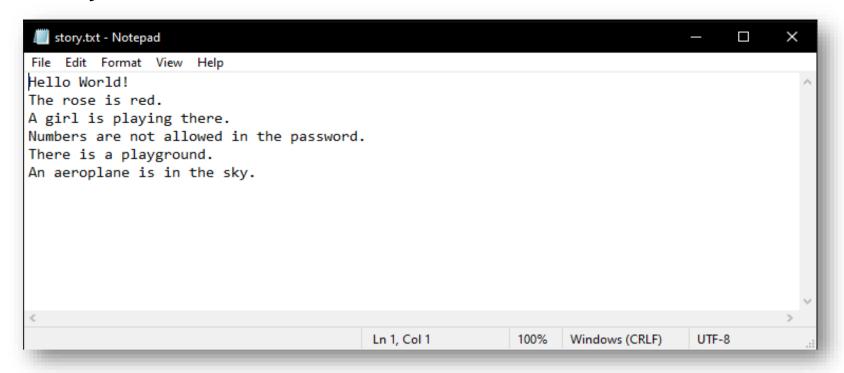
An aeroplane is in the sky.

```
#include <iostream>
#include <fstream>
#include <conio.h>
#include <cstdlib>
using namespace std;
template <class X>
void show file content(X&, string);
template <class X>
int no of lines not starting with(char, X&);
// Driver Code
int main(void)
{
  system("cls");
  string file = "story.txt"; // Source File Name
  ifstream fin(file);
  if (!fin)
    cout << " An Error has occurred while opening file!";</pre>
  }
  else
  {
    cout << "This program is to count the number of line in the file \'"
         << file << "\' which does not start with any character specified."
         << "\n\nEnter the character: ";
    char ch; cin >> ch;
    show file content(fin, file);
    cout << "\nNumber of lines which does not start with character \'"</pre>
         << ch << "\':: " << no of lines not starting with(ch, fin);
    fin.close();
  }
```

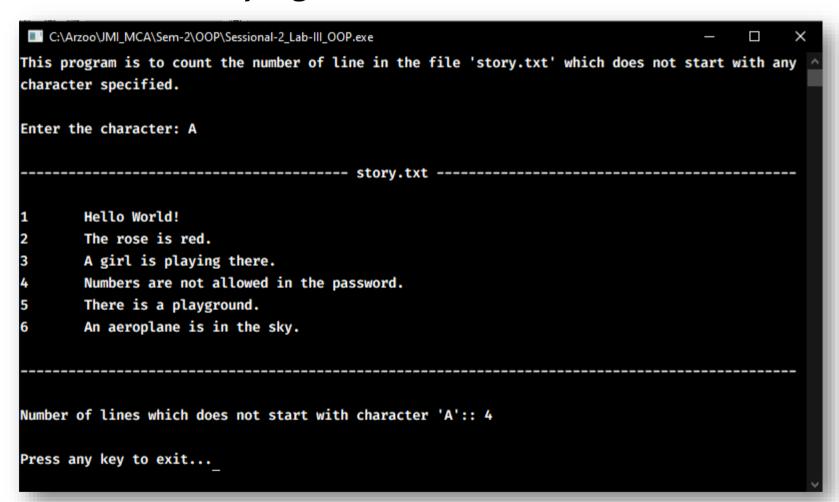
20MCA011 PAGE 1

```
cout << "\n\nPress any key to exit..."; getch();</pre>
 system("cls");
 return 0;
}
//Function to count no. of lines in a file not starting with an alphabet specified
template <class X>
int no_of_lines_not_starting_with(char ch, X& fin)
{
 int count = 0;
 char chFile;
 string line;
 fin.seekg(0, ios::beg);
 while (!fin.eof())
   getline(fin, line);
   chFile = line[0];
   if (int(ch)==(int)line[0] \mid | int(ch)+32==(int)line[0] \mid | int(ch)-32 == (int)line[0])
   {}
   else ++count;
 return count;
}
// Function to display the content of a file
template <class X>
void show_file_content(X& fin, string fName)
 int i = 1;
 string line;
 cout << "\n----- " << fName
      << " ----\n\n";
 fin.seekg(0, ios::beg);
 while (!fin.eof())
   getline(fin, line);
   cout << i++ << "\t" << line << endl;</pre>
 fin.seekg(0, ios::beg);
 cout << "\n-----"
      << "----\n";
}
```

Story.txt file content:



OUTPUT of the program:





20MCA011 PAGE 3