CENTRAL UNIVERSITY OF HARYANA

Department of Computer Science & Engineering under SOET

C++ Programming Lab

Write a class STRING that can be used to store strings, add strings, equate strings, output strings.

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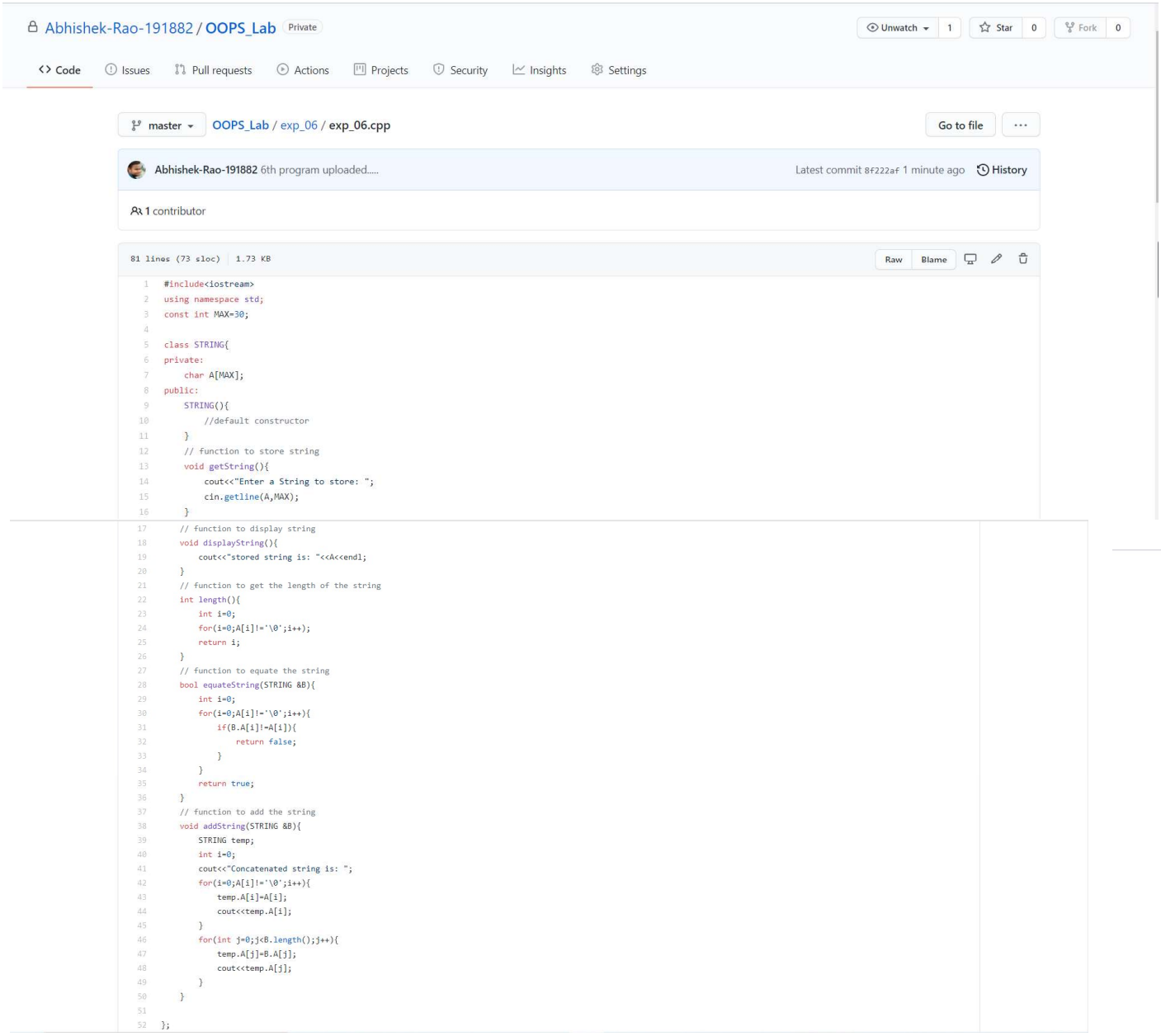
Program - 6: Write a class STRING that can be used to store string, add strings, equate string, output string.

Code:



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```cpp
#include<iostream>
using namespace std;
const int MAX=30;

class STRING{
private:
    char A[MAX];
public:
    STRING(){
        //default constructor
    }
    // function to store string
    void getString(){
        cout<<"Enter a String to store: ";
        cin.getline(A,MAX);
    }
    // function to display string
    void displayString(){
        cout<<"stored string is: "<<A<<endl;
    }
    // function to get the length of the string
    int length(){
        int i=0;
        for(i=0;A[i]!='\0';i++);
        return i;
    }
    // function to equate the string
    bool equateString(STRING &B){
        int i=0;
        for(i=0;A[i]!='\0';i++){
            if(B.A[i]!=A[i]){
                return false;
            }
        }
        return true;
    }
    // function to add the string
    void addString(STRING &B){
        STRING temp;
        int i=0;
        cout<<"Concatenated string is: ";
        for(i=0;A[i]!='\0';i++){
            temp.A[i]=A[i];
            cout<<temp.A[i];
        }
        for(int j=0;j<B.length();j++){
            temp.A[j]=B.A[j];
            cout<<temp.A[j];
        }
    }

};
```

```
int main(){
    STRING string1,string2;

    cout<<"**********************"<<endl;
    //storing first string
    string1.getString();
    string1.displayString();

    cout<<"---------------------"<<endl;
    //storing second string
    string2.getString();
    string2.displayString();

    cout<<"---------------------"<<endl;
    //comparing string
    if(string1.equateString(string2)){
        cout<<"Given strings are equal !!"<<endl;
    }else{
        cout<<"Given strings are not equal !!"<<endl;
    }

    cout<<"---------------------"<<endl;
    //Adding string
    string1.addString(string2);
    cout<<endl;

    return 0;
}
```

Output:

```
**********************
Enter a String to store: Abhi
stored string is: Abhi
---------------------
Enter a String to store: shek
stored string is: shek
---------------------
Given strings are not equal !!
---------------------
Concatenated string is: Abhishek

Process returned 0 (0x0)   execution time : 20.586 s
Press any key to continue.
```

```
**********************
Enter a String to store: Abhishek
stored string is: Abhishek
---------------------
Enter a String to store: Abhishek
stored string is: Abhishek
---------------------
Given strings are equal !!
---------------------
Concatenated string is: AbhishekAbhishek

Process returned 0 (0x0)   execution time : 6.240 s
Press any key to continue.
```