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

## Strings

GitHub Link

Rudra Chinhara

## CODE

```
1 /*
2 Write a class STRING that can be used to store strings, add strings, equate string, output string
3 */
6 using namespace std;
8 class String
13
14 public:
      int calSize(char arr[])
{
   int length = 0;
15
17
18
            for (int i = 0; arr[i] != '\0'; i++)
20
           {
    ++length;
}
       return length;
}
23
24
25
26
27
28
29
30
         void store(char arr[])
        {
    size = calSize(arr);
31
32
            for (int i = 0; i < size; i++)
           {
    str[i] = arr[i];
}
34
35
36
37
38
         void add(char arr1[], char arr2[])
         {
   int len1 = calSize(arr1);
   int len2 = calSize(arr2);
41
42
43
44
45
46
47
           store(arr1);
            for (int i = 0; i <= len2; i++)
           {
    str[len1 + i] = arr2[i];
}
48
49
        output(str);
}
```

```
51
52
          void equate(char arr1[], char arr2[])
53
54
55
               size = calSize(arr1);
               int flag = 0;
56
57
               for (int i = 0; i < size; i++)</pre>
58
                   if (arr1[i] != arr2[i])
60
61
                       cout<<"The strings are not equal\n";</pre>
                        flag = 1;
63
64
                      break;
66
67
              if (flag == 0)
                   cout<<"The strings are equal\n";</pre>
69
70
72
73
74
          void output(char arr[])
              size = calSize(arr);
75
76
             for(int i = 0; i < size; i++)
78
                  cout<<arr[i];
79
               cout<<endl;
81
82 };
83
84
85
86
87
     int main()
          String obj;
         char str1[] = "Hello";
char str2[] = "World";
char str3[] = "Hello";
88
89
90
91
92
         obj.add(str1, str2);
obj.equate(str1, str2);
          obj.equate(str1, str3);
94
95
          return 0;
```

## **OUTPUT**

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\CUH\4th Sem\00P with C++\Lab\6. Strings> cd "d:\CUH\4th Sem\00P with C++\Lab\6. Strings\"; if ($?) { g++ Strings.cpp -o Strings }; if ($?) { .\Strings }

HelloWorld
The strings are not equal
The strings are equal
PS D:\CUH\4th Sem\00P with C++\Lab\6. Strings> |
```