String, Substring and Replacement

```
//Aneesh Panchal
//2K20/MC/21
#include<bits/stdc++.h>
using namespace std;
int main()
    char str[101],str1[101];
    cout<<"Enter the string: ";</pre>
    gets(str);
    cout<<"Enter the substring: ";</pre>
    gets(str1);
    int strlen=0,str1len=0;
    while(str[strlen]!='\0'){
        ++strlen;
    while(str1[str1len]!='\0'){
        ++str1len;
    int count=0,index=0;
    for(int i=0;str[i]!='\0';++i)
    {
        count=0;
        index=i;
        if(str[i]==str1[0])
             for(int j=0;j<str1len;++j)</pre>
                 if(str1[j]==str[i+j]){
                     count=count+1;
             if(count==str1len){
                 break;
    if(count==str1len)
        cout<<"Substring present at index "<<index<<endl<<endl;</pre>
    else{
        cout<<"Substring not present"<<endl<<endl;</pre>
        return 0;
    char replace[101];
```

```
cout<<"Enter replacement string: ";
gets(replace);

int replen=0;
while(replace[replen]!='\0'){
    ++replen;
}

if(replen==count)
{
    for(int i=0;i<replen;++i)
      {
        str[index+i]=replace[i];
      }
      cout<<"After Replacement: "<<str<<endl<<endl;
}
else
    cout<<"Error: String is of different length !!!"<<endl<<endl;
return 0;</pre>
```

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       Windows PowerShell
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        Try the new cross-platform PowerShell https://aka.ms/pscore6
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       PS G:\Codes> cd "g:\Codes\CS 251 DS\" ; if (\$?) { g++ fetch_substr.cpp -0 fetch_substr } ; if (\$?) { .\fetch_substr }
        Enter the string: hell me and you
$
        Enter the substring: and
        Substring present at index 8
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       Enter replacement string: foo
       After Replacement: hell me foo you
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       PS G:\Codes\CS 251 DS> cd "g:\Codes\CS 251 DS\"; if (\$?) { g++ fetch_substr.cpp -o fetch_substr }; if (\$?) { .\fetch_substr }
        Enter the string: hell me and you
       Enter the substring: hello
       Substring not present
PS G:\Codes\CS 251 DS> cd "g:\Codes\CS 251 DS\"; if ($?) { g++ fetch_substr.cpp -o fetch_substr }; if ($?) { .\fetch_substr }
       Enter the string: hell me and you
        Enter the substring: and
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        Substring present at index 8
       Enter replacement string: foot
       Error: String is of different length !!!
       PS G:\Codes\CS 251 DS> cd "g:\Codes\CS 251 DS\"; if (\$?) { g++ fetch_substr.cpp -o fetch_substr }; if (\$?) { .\fetch_substr }
       Enter the string: hell me and you
        Enter the substring: me
       Substring present at index 5
        Enter replacement string: yo
       After Replacement: hell yo and you
(2)
       PS G:\Codes\CS 251 DS>
```

String concatenation

```
//Aneesh Panchal
//2K20/MC/21
#include<bits/stdc++.h>
using namespace std;
int main()
    char str1[101],str2[101];
    cout<<"Enter 1st string: ";</pre>
    gets(str1);
    cout<<endl<<"Enter 2nd string: ";</pre>
    gets(str2);
    int i=0, j=0;
    while(str1[i]!='\0')
        ++i;
    while(str2[j]!='\0')
        str1[i]=str2[j];
        ++i;++j;
    str1[i]='\0';
    cout<<endl<<"String after concatenation: "<<str1<<endl<<endl;</pre>
    return 0;
```

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                                                                              strconcat.cpp - Codes - Visual Studio Code
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       Windows PowerShell
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        Try the new cross-platform PowerShell https://aka.ms/pscore6
        PS G:\Codes\cd "g:\Codes\CS 251 DS\" ; if ($?) { g++ strconcat.cpp -0 strconcat } ; if ($?) { .\strconcat }
       Enter 1st string: hello
4
       Enter 2nd string: how are you?
String after concatenation: hello how are you?
        PS G:\Codes\CS 251 DS> cd "g:\Codes\CS 251 DS\" ; if ($?) { g++ strconcat.cpp -o strconcat } ; if ($?) { .\strconcat }
       Enter 1st string: hello
       Enter 2nd string: I am fine.
       String after concatenation: hello I am fine.
PS G:\Codes\CS 251 DS> cd "g:\Codes\CS 251 DS\" ; if ($?) { g++ strconcat.cpp -o strconcat } ; if ($?) { .\strconcat }
       Enter 1st string: Thank
╗
        Enter 2nd string: You!
        String after concatenation: Thank You!
```