
Computer Programming Lab

CEN-392

Program 9

Code :-

```
#include <iostream>
using namespace std;

int Length(char str[])
{
    int len = 0;
    while (str[len] != '\0')
        len++;
    return len;
}

void Replace(char txt[], char find[], char replace[], int
indx)
{
    int len1, len2, len3;
    len1 = Length(txt);
```

```

    len2 = Length(find);
    len3 = Length(replace);
    int i;
    for (i = indx; i < len1 && txt[i + len2] != '\0'; i++)
// Removing The Find String
    {
        txt[i] = txt[i + len2];
    }
    txt[i] = '\0';
    char temp[200];
    len1 = Length(txt);
    for (i = 0; i < len1; i++) // Copying The String To The
Temp From indx->end
    {
        temp[i] = txt[i + indx];
    }
    temp[i] = '\0';
    for (i = 0; i < len3; i++) // now adding the replace
string from indx
    {
        txt[indx + i] = replace[i];
    }
    indx += i;
    int len4 = Length(temp);
    for (i = 0; i < len4; i++) // now we add the temp string
after the replace string
    {
        txt[indx + i] = temp[i];
    }
    txt[indx + i] = '\0';
}

```

```

void Find(char txt[], char find[], char replace[], bool
Multi)
{
    if (Multi)
        cout << "Multi Replace Selected...\n\n";
    else
        cout << "Multi Replace Selected...\n\n";
}

```

```

fflush(stdin);
cout << "Enter The Word To Find : ";
cin.getline(find, 200);
cout << "Enter The Word To Replace : ";
cin.getline(replace, 200);
int len1, len2;
len1 = Length(txt);
len2 = Length(find);
int i, j;
bool check = false;
for (i = 0; i <= len1 - len2; i++)
{
    for (j = 0; j < len2; j++)
    {
        if (txt[i + j] != find[j])
            break;
    }
    if (j == len2)
    {
        check = true;
        if (Multi)
        {
            Replace(txt, find, replace, i);
        }
        else
        {
            Replace(txt, find, replace, i);
            break;
        }
    }
}
if (!check)
{
    cout << "\nWord Not Found In The Text\n"
        << endl;
}
else
{

```

```

        cout << "\nThe Modified String :\n";
        cout << txt << endl;
    }
}

void Input_Again(char txt[], char find[], char replace[])
{
    cout << "Input Again...\n\n";
    cout << "Enter The Text : \n";
    fflush(stdin);
    cin.getline(txt, 200);
}

void Add_Bars()
{
    cout << "-----"
    -----" << endl;
}

void Menu()
{
    cout << "____Operations____" << endl;
    cout << "1.Single Replace" << endl;
    cout << "2.Multiple Replace" << endl;
    cout << "3.Input Again" << endl;
    cout << "4.Exit" << endl;
    cout << "Enter Your Choice : ";
}

bool Options(char txt[], char find[], char replace[])
{
    int opt;
    fflush(stdin);
    cin >> opt;
    Add_Bars();
    switch (opt)
    {
        case 1:
            Find(txt, find, replace, 0);

```

```

        break;
    case 2:
        Find(txt, find, replace, 1);
        break;
    case 3:
        Input_Again(txt, find, replace);
        break;
    case 4:
        return 0;
    default:
        cout << "Incorrect Input!\nTry Again!" << endl;
        break;
    }
    Add_Bars();
    return 1;
}

int main()
{
    system("cls");
    cout << "___Vicky_Gupta_20BCS070___\n\n";
    char txt[200], find[200], replace[200];
    cout << "Enter The Text : \n";
    cin.getline(txt, 200);
    cout << "\n\n";
    while (true)
    {
        Menu();
        if (!Options(txt, find, replace))
            break;
    }
    cout << "Exiting..." << endl;
    Add_Bars();
    return 0;
}

```

Output :-

```
___Vicky_Gupta_20BCS070___
```

```
Enter The Text :
```

```
My Name Is Vicky And My University Name Is Jamia University
```

```
___Operations___
```

```
1.Single Replace
```

```
2.Multiple Replace
```

```
3.Input Again
```

```
4.Exit
```

```
Enter Your Choice : 1
```

```
-----  
Multi Replace Selected...
```

```
Enter The Word To Find : Vicky
```

```
Enter The Word To Replace : *****
```

```
The Modified String :
```

```
My Name Is ***** And My University Name Is Jamia University
```

```
-----  
___Operations___
```

```
1.Single Replace
```

```
2.Multiple Replace
```

```
3.Input Again
```

```
4.Exit
```

```
Enter Your Choice : 2
```

```
-----  
Multi Replace Selected...
```

```
Enter The Word To Find : University
```

```
Enter The Word To Replace : College
```

```
The Modified String :
```

```
My Name Is ***** And My College Name Is Jamia College
```

```
-----  
___Operations___
```

```
1.Single Replace
```

```
2.Multiple Replace
```

```
3.Input Again
```

```
4.Exit
```

```
Enter Your Choice : 4
```

```
-----  
Exiting...  
-----
```

