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# Computer Programming Lab

## CEN-392

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# Practical Exam

## 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 << "Single Replace Selected...\n\n";

    fflush(stdin);
    cout << "Enter The Word To Find : ";
    cin.getline(find, 200);
    fflush(stdin);
    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;
            }
            len1 = Length(txt);
        }
    }
}

```

```

        len2 = Length(find);
    }
}
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 :

Today Is My Practical Exam. And Today Also We Have Viva.

\_\_\_Operations\_\_\_

1.Single Replace

2.Multiple Replace

3.Input Again

4.Exit

Enter Your Choice : 1

-----  
Single Replace Selected...

Enter The Word To Find : Practical

Enter The Word To Replace : Written

The Modified String :

Today Is My Written Exam. And Today Also We Have Viva.

\_\_\_Operations\_\_\_

1.Single Replace

2.Multiple Replace

3.Input Again

4.Exit

Enter Your Choice : 2

-----  
Multi Replace Selected...

Enter The Word To Find : Today

Enter The Word To Replace : Tommorrow

The Modified String :

Tommorrow Is My Written Exam. And Tommorrow Also We Have Viva.

```
____Operations____  
1.Single Replace  
2.Multiple Replace  
3.Input Again  
4.Exit  
Enter Your Choice : 3
```

```
-----  
Input Again...
```

```
Enter The Text :  
Hello World!
```

```
____Operations____  
1.Single Replace  
2.Multiple Replace  
3.Input Again  
4.Exit  
Enter Your Choice : 4
```

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