

Practical No: - 11 Write a program to find longest common subsequence.

```
#include<iostream>
#include<conio.h>
#include<string.h>
using namespace std;
int max(int a,int b);
int lcs(char*X,char*Y,int m,int n)
{
if(m==0||n==0)
    return 0;
if(X[m-1]==Y[n-1])
return 1+lcs(X,Y,m-1,n-1);
else
return max(lcs(X,Y,m,n-1),lcs(X,Y,m-1,n));
}
int max(int a,int b)
{
return(a>b)?a:b;
}
void main()
{
char X[]="AGGTAB";
char Y[]="GXTXAYB";
//clrscr();
int m = strlen(X);
int n = strlen(Y);
cout<<"Length of LCS is :- "<<lcs(X,Y,m,n);
getch();
}
```

/*OUTPUT*/

Length of LCS is: - 4