## LAB ASSINGMENT 7

Removing Duplicates: Given a string 'str', remove all adjacent duplicate alphabet symbols present in it by retaining one as the representative.

```
Ex 1: str = 'aaaabbbbbcccccdeeeee';
output: 'abcde'
Ex 2: str = 'xyzz';
output: 'xyz'
#include <stdio.h>
#include <string.h>
int main()
{
 char str[30]= "beepboopbeep";
 int length= strlen(str);
 for(int i=0; i<length; i++)
 {
   char ch = str[i];
  //Check if current character matches any other character in
the subsequence
  for(int j=i+1; j<length; ){</pre>
    if(str[i] == str[j]){
```

```
//If yes, then shift the right characters to the left
     for(int k=j; k<length; k++){</pre>
       str[k] = str[k+1];
     length--;
   } else {
       //only increment if the duplicate is not found
       //because after the shift, index j can again have duplicate
       j++;
   }
printf("%s",str);
return 0;
main.c
                                                                  Output
1 #include <stdio.h>
                                                                /tmp/wsHTXmmRAP.o
2 #include <string.h>
                                                                bepo
4 int main()
    char str[30]= "beepboopbeep";
     int length= strlen(str);
8
9
     for(int i=0; i<length; i++)</pre>
10 +
       char ch = str[i];
11
12
       //Check if current character matches any other character in
13
          the subsequence
14 +
       for(int j=i+1; j<length; ){</pre>
15
        if(str[i] == str[j]){
17
          //If yes, then shift the right characters to the left
          for(int k=j; k<length; k++){</pre>
18 -
```