# 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; ){

      if(str[i] == str[j]){
```

```
        //If yes, then shift the right characters to the left
        for(int k=j; k<length; k++){
          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;
}
```