**1)**

**#include <stdio.h>**

**#include <string.h>**

**int main()**

**{**

**char s[30],c='\*';**

**int i,j,k=0,n;**

**printf("Enter the string : ");**

**scanf("%[^\n]s",&s);**

**for(i=0;s[i];i++)**

**{**

**if(!(s[i]==c))**

**{**

**for(j=i+1;s[j];j++)**

**{**

**if(s[i]==s[j])**

**s[j]=c;**

**}**

**}**

**}**

**for(i=0;s[i];i++)**

**{**

**s[i]=s[i+k];**

**if(s[i]==c)**

**{**

**k++;**

**i--;**

**}**

**}**

**printf("New String:");**

**printf("%s",s);**

**return 0;**

**}**

**Output:**

**Enter the string : Embedded Systems**

**New string : Embed Syst**

**2)**

**#include <stdio.h>**

**#include<string.h>**

**int main()**

**{**

**char str[30]={'E','m','b','e','d','d','e','d',' ',' ','S','y','s','t','e','m','s'};**

**int i,j,k;**

**for(i=0;i<strlen(str);i++)**

**{**

**for(j=i+1;str[j]!='\0';j++)**

**{**

**if(str[j]==str[i])**

**{**

**for(k=j;str[k]!='\0';k++)**

**{**

**str[k]=str[k+2];**

**}**

**}**

**}**

**}**

**for(int i=0;i<strlen(str);i++)**

**{**

**if(str[i]>=65&&str[i]<=90)**

**str[i]=str[i]+32;**

**}**

**for(i=0;i<strlen(str);i++)**

**{**

**for(j=i+1;str[j]!='\0';j++)**

**{**

**if(str[j]==str[i])**

**{**

**for(k=j;str[k]!='\0';k++)**

**{**

**str[k]=str[k+1];**

**}**

**}**

**}**

**}**

**printf("%s",str);**

**return 0;**

**}**

**Output:**

**Embd syt**

**3)**

**#include <stdio.h>**

**#include<string.h>**

**//void removing(char \* str, const char toRemove, int index);**

**void removing(char \* str, const char toRemove, int index)**

**{**

**int i;**

**while(str[index] != '\0')**

**{**

**if(str[index] == toRemove)**

**{**

**i = index;**

**while(str[i] != '\0')**

**{**

**str[i] = str[i + 1];**

**i++;**

**}**

**}**

**else**

**{**

**index++;**

**}**

**}**

**}**

**int main()**

**{**

**char str[30];**

**char temp;**

**printf("Enter any string: ");**

**gets(str);**

**int i = 0;**

**while(str[i] != '\0')**

**{**

**removing(str, str[i], i + 1);**

**i++;**

**}**

**int j;**

**int n = strlen(str);**

**for (i = 0; i < n-1; i++)**

**{**

**for (j = i+1; j < n; j++)**

**{**

**if (str[i] > str[j])**

**{**

**temp = str[i];**

**str[i] = str[j];**

**str[j] = temp;**

**}**

**}**

**}**

**printf("String after removing duplicates & print in ascending: %s\n", str);**

**//return 0;**

**}**

**Output :**

**Enter any string : Embedded Systems**

**String after removing duplicates & print in ascendind : ESbdemsty**

**4)**

**#include <stdio.h>**

**#include <string.h>**

**int main()**

**{**

**char s[100];**

**int i,j,k,count=0,n;**

**printf("Enter the string : ");**

**gets(s);**

**for(j=0;s[j];j++);**

**n=j;**

**printf(" Frequency count character in string:\n");**

**for(i=0;i<n;i++)**

**{**

**count=1;**

**if(s[i])**

**{**

**for(j=i+1;j<n;j++)**

**{**

**if(s[i]==s[j])**

**{**

**count++;**

**s[j]='\0';**

**}**

**}**

**printf(" '%c' = %d \n",s[i],count);**

**}**

**}**

**return 0;**

**}**

**Output:**

**Enter the string : Embedded Systems**

**Frequency count characters in string :**

**‘E’=1**

**‘m’=2**

**‘b’=1**

**‘e’=3**

**‘d’=3**

**‘ ‘ =1**

**‘s’=1**

**‘y’=1**

**‘s’=2**

**‘t’=1**

**5)**

**#include <stdio.h>**

**#include <string.h>**

**int main()**

**{**

**char s[100];**

**int i,j,k,count=0,n;**

**printf("Enter the string : ");**

**gets(s);**

**for(i=0;i<strlen(s);i++)**

**{**

**s[i]=tolower(s[i]);**

**}**

**for(j=0;s[j];j++);**

**n=j;**

**printf(" frequency count character in string:\n");**

**for(i=0;i<n;i++)**

**{**

**count=1;**

**if(s[i])**

**{**

**for(j=i+1;j<n;j++)**

**{**

**if(s[i]==s[j])**

**{**

**count++;**

**s[j]='\0';**

**}**

**}**

**printf(" '%c' = %d \n",s[i],count);**

**}**

**}**

**return 0;**

**}**

**Output :**

**Enter the string : Embedded Systems**

**Frequency count character in string :**

**‘e’=4**

**‘m’=2**

**‘b’=1**

**‘d’=3**

**‘ ‘=1**

**‘s’=3**

**‘y’=1**

**‘t’=1**