//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)

{

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 ascending: 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