

Name: Antarin Ghosal

Ha 7.5

```
/*
Name : Antarin ghosal
HA7.5 WAP to replace all occurrences of a substring in a given string with a new one.
*/

#include<stdio.h>
#include<string.h>
int main()
{
    char str[100],str1[100],str2[100];
    int k,ch,b,j;

    printf("ENTER THE STRING:");
    scanf("%[^\n]s",str);

    printf("ENTER THE SUBSTRING TO REPLACE:");
    scanf(" %[^\n]s",str1);

    printf("ENTER THE SUBSTRING TO REPLACE WITH:");
    scanf(" %[^\n]s",str2);

    int len=strlen(str),len1=strlen(str1),len2=strlen(str2),i=0;

    while(str[i]!='\0')
    {
        b=0;
        if(str[i]==str1[0])
        {
            k=0,ch=0,b=0;
            for(j=i;j<i+len1;j++)
                if(str1[k++]==str[j])
                    ch++;
            if(ch==len1)
                b=1;
        }
        if(b==1)
        {
            printf("%s",str2);
            i=i+(len1-1);
        }
        else
            printf("%c",str[i]);
        i=i+1;
    }
    return 0;
}
```

```
}
```

```
ENTER THE STRING:hello world
ENTER THE SUBSTRING TO REPLACE:ell
ENTER THE SUBSTRING TO REPLACE WITH:aaa
haaao world
```

```
ENTER THE STRING:Antarin ghosal
ENTER THE SUBSTRING TO REPLACE:ghosal
ENTER THE SUBSTRING TO REPLACE WITH:antarin
Antarin antarin
```

Ha 7.4

```
/*
Name : Antarin ghosal
HA7.4 WAP to sort a list of names/strings alphabetically.
*/

#include<stdio.h>
#include<string.h>
int main()
{
    int i,j,n;
    char str[100][100],temp[100];

    printf("Enter number of names :\n");
    scanf("%d",&n);
    printf("Enter names in any order:\n");

    for(i=0;i<n;i++)
    {
        scanf("%s",str[i]);
    }

    for(i=0;i<n;i++)
    {
        for(j=i+1;j<n;j++)
        {
            if(strcmp(str[i],str[j])>0)
            {
                strcpy(temp,str[i]);
                strcpy(str[i],str[j]);
                strcpy(str[j],temp);
            }
        }
    }
}
```

```

    }
}

printf("\nThe sorted order of names are:\n");
for(i=0;i<n;i++)
{
    printf("%s\n",str[i]);
}
return 0;
}

```

```

Enter number of names : 2
Enter names in any order:
anto
antarin

The sorted order of names are:
antarin
anto

```

```

Enter number of names : 3
Enter names in any order:
jayas
rajesh
antarin

The sorted order of names are:
antarin
jayas
rajesh

```

La 7.5

```

/*
Name : Antarin ghosal
LA7.5 WAP to reads a sentence and prints frequency of each of the vowels and total count
of Consonants.
*/

#include<stdio.h>
#include<string.h>
#include<ctype.h>
int main()
{
    int i,vc=0,c=0;char ch;
    char str[100];

    printf("Enter the sstring: ");
    scanf("%[^\n]s",str);
    int len=strlen(str);
    for(i=0;i<len;i++)
    {
        if(str[i]=='a' || str[i]=='e' || str[i]=='i' || str[i]=='o' || str[i]=='u' || str[i]=='A' || s
tr[i]=='E' || str[i]=='I' || str[i]=='O' || str[i]=='U')

```

```

        vc++;
    else if(isalpha(str[i]))
        c+=1;
    else
        continue;
}

printf("NUMBER OF VOWEL: %d\n",vc);
printf("NUMBER OF CONSUNENT: %d",c);

return 0;
}

```

```

Enter the sstring: hello
NUMBER OF VOWEL: 2
NUMBER OF CONSUNENT: 3

```

```

Enter the sstring: antarin
NUMBER OF VOWEL: 3
NUMBER OF CONSUNENT: 4

```

La 7.6

```

/*
Name : Antarin ghosal
LA7.6 WAP to replace all occurrences of a character in a string with the previous 3rd
character if any of the character.
*/

#include<stdio.h>
#include<string.h>
int main()
{
    char ch;
    char str[10];
    int i;
    printf("Enter the sstring: ");
    scanf("%[^\\n]s",str);
    int len=strlen(str);
    printf("%s",str);

    for(i=0;i<len;i++)
    {
        ch=tolower(str[i])-3;

        if(ch<97)
            ch=ch+26;

        if(isalpha(str[i]))

```

```

        str[i]=ch;
    }

    printf("\n%s",str);

return 0;
}

//reverse is on the string

```

```

Enter the sstring: antarin
antarin
xkqxofk

```

```

Enter the sstring: hello
hello
ebiil

```

La 7.7

```

/*
Name : Antarin ghosal
LA7.7 Develop a user defined function and test them in the main program for the following
standard function:
int MatchAny(char s1[], char s2[]) :It takes two string arguments and it returns 1 if s2
is substring of s1, returns 0 if both s1 and s2 are equal strings,
otherwise, returns -1. Do not use the standard library functions.

*/

#include<stdio.h>
#include<string.h>
int main()
{
    char str[100],str1[100],str2[100];
    int k,ch,b=0,j;

    printf("ENTER THE STRING(s1):");
    scanf("%[^\\n]s",str);

    printf("ENTER THE SUBSTRING:(s2):");
    scanf(" %[^\\n]s",str1);

    int len=strlen(str),len1=strlen(str1),i=0;

    if(len!=len1)
    {
        while(str[i]!='\\0')

```

```

{
    b=0;
    if(str[i]==str1[0])
    {
        k=0,ch=0,b=0;
        for(j=i;j<i+len1;j++)
            if(str1[k++]==str[j])
                ch++;
        if(ch==len1)
            b=1;
    }
    i=i+1;
}
if(b==1)
    printf("1");
else
    printf("-1");
}

else if(len==len1)
{
    for(i=0;i<len;i++)
        if(str[i]!=str1[i])
            b=1;
    if(b=1)
        printf("0");
    else
        printf("-1");
}
else
    printf("-1");

return 0;
}

```

```

ENTER THE STRING(s1):antarin
ENTER THE SUBSTRING:(s2):ghosal
-1

```

```

ENTER THE STRING(s1):hell
ENTER THE SUBSTRING:(s2):hello
-1

```

Sa 7.5

```

/*
Name : Antarin ghosal
SA7.5 WAP to extract the first character of each word of a given string (Achromatic
string).

```

```

*/

#include<stdio.h>
#include<string.h>
int main()
{
    char ch;
    char str[10];
    int i;

    printf("Enter the string: ");
    scanf("%[^\\n]s",str);
    int len=strlen(str);

    printf("%c ",str[0]);

    for(i=1;i<len;i++)
        if(str[i]==' ')
            printf("%c ",str[i+1]);

return 0;
}

```

```

Enter the string: antarin
a

```

```

Enter the string: Hello
H

```

Sa 7.6

```

/*
Name : Antarin ghosal
SA7.6 WAP to extract a substring of a given string.
*/

#include<stdio.h>
#include<string.h>
int main()
{
    char ch;
    char str[10];
    int i,p1,s;

    printf("Enter the string: ");
    scanf("%[^\\n]s",str);

```

```

    int len=strlen(str);

    printf("enter the staring postion: ");
    scanf("%d",&p1);
    printf("enter the size of the substring:");
    scanf("%d",&s);

    printf("subString: ");
    for(i=p1-1;i<(p1+s)-1;i++)
        printf("%c",str[i]);

return 0;
}

```

```

Enter the string: Hello world
enter the staring postion: 2
enter the size of the substring:4
subString: ello

```

```

Enter the string: antarin ghosal
enter the staring postion: 2
enter the size of the substring:
subString: ntar

```

Sa 7.8

```

/*
Name : Antarin ghosal
SA7.8 WAP to replace all occurrences of a character in a given string with a new
character.
*/

#include<stdio.h>
#include<string.h>
int main()
{
    char ch,ch2;
    char str[10];
    int i,p1,s;

    printf("Enter the string: ");
    scanf("%[^\\n]s",str);
    int len=strlen(str);

    printf("CHAR TO REPLACE:");
    scanf(" %c",&ch);
    printf("REPLACE WITH: ");

```



```
scanf(" %c",&ch2);

printf("NEW STRING: ");
for(i=0;i<len;i++)
    if(str[i]==ch)
        str[i]=ch2;

printf("%s",str);

return 0;
}
```

```
Enter the string: antarin
CHAR TO REPLACE:a
REPLACE WITH: d
NEW STRING:  dntdrin
```

```
Enter the string: hello
CHAR TO REPLACE:l
REPLACE WITH: a
NEW STRING:  heaao
```