

*****C Language Assignment on String*****

```

/*****
Q1 . Write a C program to accept string with multiple spaces from
    user and print as it is.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*****/

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    char a[10];
    printf("enter your string");
    fgets(a,10,stdin);
    printf("%s",a);
    getch();
}

```

```

/*****
Q2 . Write a C program to accept string with multiple spaces from
    user and print it with a sinlge space as
    a delimiter.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*****/

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0;
    char a[100];
    printf("enter your string");
    fgets(a,100,stdin);

    while(a[i]!='\0')
    {
        while(a[i]==' ')
        {

```

```

        i++;
    }
    while(a[i]!='\0' && a[i]!=' ')
    {
        printf("%c",a[i]);
        i++;
    }
    printf(" ");
}

getch();
}

```

```

/*****
Q3.    Write a C program to print count of number characters in
        given string.
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*****/

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i=1,count=0;
    char a[100];
    printf("enter your string");
    fgets(a,100,stdin);

    while(a[i]!='\0')
    {
        count++;
        i++;
    }
    printf("%d",count);

    getch();
}

```

```

/*****
Q4.    Write a C program to accept string and print it in the reverse
        order.
Eg:
Input String: India is my country

```

Output String: yrtnuoc ym si aidnI
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BATCH: PPA9

*****/

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=1,count=0;
    char a[100];
    printf("enter your string");
    fgets(a,100,stdin);

    while(a[i]!='\0')
    {
        count++;
        i++;
    }
    for(i=count;i>=0;i--)
    {
        printf("%c",a[i]);
    }

    getch();
}
```

/*****

Q5. Write a C program to count count of number of vowels and
number of consonants in the given string.

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*****/

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=1,vo=0,co=0;
    char a[100];
    printf("enter your string");
    fgets(a,100,stdin);

    while(a[i]!='\0')
```

```

        {
            if(a[i]!=' ')
            {
                if(a[i]=='a' ||
a[i]=='e' || a[i]=='i' || a[i]=='o' || a[i]=='u' || a[i]=='A' || a[i]=='E' || a[i]=='I' || a[i]=='
'O' || a[i]=='U')
                {
                    vo++;
                }
                else
                    co++;
            }
            i++;
        }
        printf(" total number of vowels in array: %d\n",vo);
        printf(" and total number of consonants in array : %d ",co);

        getch();
    }

```

```

/*****
6. Write a C program to reverse a given string as below.
    Eg:
    Input String: India is my country
    Output String: aidnI si ym yrtnuoc
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*****/

```

```

#include <stdio.h>
#include <conio.h>

void main()
{
    int n,i=0,temp=0,count=0;

    char a[100];
    printf("ENTER YOUR string");
    fgets(a,100,stdin);

    while(a[i]!='\n')
    {
        count++;
        i++;
    }
}

```

```

i=0;
while(a[i]!='\0')
{
    while(a[i]!=' ' && a[i]!='\n')
    {
        i++;
    }

    temp=i-1;

    while(temp>=0 && a[temp]!=' ')
    {
        printf("%c",a[temp]);
        temp--;
    }
    if(a[i]==' ')
    {
        printf("%c",' ');
    }

    i++;
}
getch();
}

```

/*****

Q7. Write a C program to replace space with '\$' in given string.

Eg:

Input String: India is my country

Output String: India\$is\$my\$coutry

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*****/

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0;
    char a[100];
    printf("enter your string");
    fgets(a,100,stdin);

```

```

        while(a[i]!='\0')
        {
            if(a[i]==' ')
            {
                a[i]='$';
                i++;
            }
            else
            {
                a[i]=a[i];
                i++;
            }
        }
        printf("%s",a);

        getch();
    }

```

/*****

8. Write a program which accept sentence from user and print number of words from that sentence.

Input String: India_is_my_country

Output: 4

Input String:

_____India_____is_____my_____country_____

(Consider _ as space)

Output: 4

OWNER: AKSHAY GANGARAM KADAM

BATCH: PPA9

*****/

```

#include <stdio.h>

```

```

#include<conio.h>

```

```

void main()

```

```

{
    int n,i=0,temp=0,count=0,total=0;

```

```

    char a[100];
    printf("ENTER YOUR string");
    fgets(a,100,stdin);

```

```

    i=0;

```

```

while(a[i]!='\0')
{
    while(a[i]!=' ' && a[i]!='\n')
    {
        i++;
    }

    temp=i-1;

    if(temp>=0 && a[temp]!=' ')
    {
        total++;
    }
    i++;
}
printf(" total word in string = %d",total);
getch();
}

```

```

/*****
Q 9 .Write a C program to replace Good names in mail.
    Eg:
        Raw String: Hello GoodName
        Input String: India
        Output String: Hello India
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*****/

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    char a[100],c[100],b[]={"Hello GoodName"};
    int i=0,j=0;
    printf("enter your string");
    fgets(a,100,stdin);
    while(b[i]!='\0')
    {
        printf("%c",b[i]);
        i++;
    }
    printf("\n");
    i=0;
}

```

```

        while(b[i]!=' ')
        {
            c[j]=b[i];
            i++;
            j++;
        }
        c[j]=' ';
        j++;
        i=0;
        while(a[i]!='\0')
        {
            c[j]=a[i];
            j++;
            i++;
        }

        i=0;
        while(c[i]!='\0')
        {
            printf("%c",c[i]);
            i++;
        }

        getch();
    }

```

/*****

Q11. Write a C program which accepts a string from user which contains a characters from 'b' to 'y'.

Eg:

Input String: mn jn kn kazfd

Output String: mn jn kn k

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*****/

```

#include <stdio.h>

```

```

#include<conio.h>

```

```

void main()

```

```

{

```

```

    int i=0,j=0;

```

```

    char a[20];

```

```

    printf("enter your string");

```

```

    fgets(a,20,stdin);

```

```

    while(a[i]!='\0')

```



```

{
    if(a[i]=='a' || a[i]=='z')
    {
        break;
    }
    else
    j++;
    i++;
}
i=0;
while(i<j)
{
    printf("%c",a[i]);
    i++;
}
getch();
}

```

/******

Q12. Write a C program which accept sentence from user and
print number of small letters, capital
letters, Spaces and digits from that sentence.

Eg:

Input String: abcDE 5Glm1 0

Output String: Small: 5 Capital: 4 Digits: 2 Spaces: 2

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*****/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
    int small=0,Capital=0,digit=0,sp=0,i=0,j=0,n;
```

```
    char a[100];
```

```
    int b[100];
```

```
    printf("enter your array string");
```

```
    fgets(a,100,stdin);
```

```
    while(a[i]!='\0')
```

```
    {
```

```
        b[j]=a[i];
```

```
        j++;
```

```
        i++;
```

```
    }
```

```

        n=i;
        for(i=0;i<n;i++)
        {
            if(b[i]>=48 && b[i]<58)
            {
                digit++;
            }
            if(b[i]>=65 && b[i]<91)
            {
                Capital++;
            }
            if(b[i]>=97 && b[i]<123)
            {
                small++;
            }
            if(b[i]==' ')
            {
                sp++;
            }
        }
        printf("the Capital=%d\n the digit=%d\n the small=%d\nthe
sp=%d",Capital,digit,small,sp);

        getch();
}

```

```

/*****
Q13. Write a C program which accept sentence from user and
print number of white spaces from that
sentence.
Eg:
Input String: India is my country
Output: 3
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BATCH: PPA9
*****/
#include<stdio.h>
#include<conio.h>
void main()
{    int n,i=0,count=1;

```

```

        char a[100];
        printf("enter your array string");
        fgets(a,sizeof(a),stdin);
        while(a[i]!='\0')
        {
            if(a[i]==' ')

```

```

        {
            count++;
        }
        i++;
    }
    printf("%d",count);

    getch();
}

```

/*****

Q 14. Write a C program which accept sentence from user and
 print number of words of even and odd
 length from that sentence.

Eg:

Input String: India is my country. I love my country.

Output : Even: 5 Odd: 2

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*****/

```

#include <stdio.h>

```

```

#include<conio.h>

```

```

void main()

```

```

{
    int n,i=0,temp=0,count=0,N=0,even=0,odd=0;

```

```

    char a[100];

```

```

    printf("ENTER YOUR string");

```

```

    fgets(a,100,stdin);

```

```

    while(a[i]!='\0')

```

```

    {

```

```

        N=0;

```

```

        while(a[i]!=' ' && a[i]!='\n')

```

```

        {

```

```

            while(a[i]!=' ' && a[i]!='\n')

```

```

            {

```

```

                i++;

```

```

                N++;

```

```

            }

```

```

            if(N%2==0)

```

```

            {

```

```

        even++;
    }

    else
    {
        odd++;
    }
}

i++;
}
printf("the odd string= %d\nthe even string = %d\n",odd,even);
getch();
}

```

/*****

Q 16. Write a C program which accept sentence from user and position from user and print the word at that position.

Eg:

Input String: India is my country

Input Position: 3

Output String: my

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*****/

```

#include <stdio.h>

```

```

#include<conio.h>

```

```

void main()

```

```

{
    int n,i=0,temp=0,count=0,number,c=0;

```

```

    char a[100],b[100];
    printf("ENTER YOUR string");
    fgets(a,100,stdin);
    printf("ENTER YOUR number");
    scanf("%d",&number);

```

```

    while(a[i]!='\0')
    {
        if(a[i]!=' ' && a[i]!='\n')
        {
            while(a[i]!=' ' && a[i]!='\n')
            {

```

```

        i++;
    }
    c++;
}

if(number==c)
{
    temp=i-1;
    break;
}

    i++;
}
i=0;
while(temp>=0 && a[temp]!=' ')
{

    b[i]=a[temp];
    temp--;
    i++;
}
b[i]='\0';
while(i>=0)
{
    printf("%c",b[i]);
    i--;
}

    getch();
}

```

/******

Q 17. Write a C program to convert the string from upper case to lower case.

Eg:

Input String: India Is My Country

Output String: india is my country

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BATCH: PPA9

*****/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    int i=0,n,j=0,p=0;
```

```
    char a[100];
```

```

int b[100];
char c[100];
printf("enter your array string");
fgets(a,100,stdin);

while(a[i]!='\0')
{
    b[j]=a[i];
    j++;
    i++;
}
n=i;
for(i=0,j=0;i<n;i++,j++)
{
    if(b[i]>=97 && b[i]<123)
    {
        c[i]=b[i];
    }
    else
    if(b[i]<97 && b[i]>64)
    {
        p=b[i];
        c[j]=p+32;
    }
    else if(b[i]==' ')
    {
        c[j]=' ';
    }
}
for(i=0;i<n-1;i++)
{
    printf("%c",c[i]);
}

getch();
}

```

/*****
 Q18. Write a C program which toggles the case of a string.

Eg:

Input String: technOrbit Infosystems

Output String: TECHNoRBIT iNFOsYSTEMS

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*****/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```

int i=0,n,j=0,p=0;

char a[100];
int b[100];
char c[100];
printf("enter your array string");
fgets(a,100,stdin);

while(a[i]!='\0')
{
    b[j]=a[i];
    j++;
    i++;
}
n=i;
for(i=0,j=0;i<n;i++,j++)
{
    if(b[i]>=97 && b[i]<123)
    {
        c[i]=b[i]-32;
    }
    else
    if(b[i]<97 && b[i]>64)
    {
        p=b[i];
        c[j]=p+32;
    }
    else if(b[i]==' ')
    {
        c[j]=' ';
    }
}
for(i=0;i<n-1;i++)
{
    printf("%c",c[i]);
}

getch();
}

```

19. Write a C program to check whether given strings are Anagram strings or not.

Eg:

Input String1: abccd

Input String2: cbcda

Output String: Strings are anagram

```

#include<stdio.h>
#include<conio.h>

void main()
{
    char a[20], b[20];
    int len, len1=0, len2=0, i=0, j, f=0, nf=0;
    printf("Enter first string: ");
    fgets(a,sizeof(a),stdin);
    printf("Enter second string: ");
    fgets(b,sizeof(b),stdin);

    while(a[i]!='\n')
    {
        len1++;
        i++;
    }
    i=0;
    while(b[i]!='\n')
    {
        len2++;
        i++;
    }

    if(len1 == len2)
    {
        len = len1;
        for(i=0; i<len; i++)
        {
            f = 0;
            for(j=0; j<len; j++)
            {
                if(a[i] == b[j])
                {
                    f = 1;
                    break;
                }
            }
            if(f== 0)
            {
                nf = 1;
                break;
            }
        }
        if(nf == 1)
            printf("\nStrings are not Anagram");
        else
            printf("\nStrings are Anagram");
    }
}

```



```

    else
        printf("\nboth string size not same ");
    getch();
}

```

```

/*****
Q20. Write a C program which accept string from user and copy
that string into some another string.

```

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BATCH: PPA9

```

*****/

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,j=0;

    char a[100],c[100];
    printf("enter your array string");
    fgets(a,100,stdin);

    while(a[i]!='\0')
    {
        c[j]=a[i];
        j++;
        i++;
    }
    printf("%s",c);

    getch();
}

```

```

/*****

```

Q 21: Write a program which accept string from user and copy first N characters into some destination string.

Eg:

Input String: India is my country

Input of N: 8

Output String: India is

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BATCH: PPA9

```

*****/

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,j=0,N;

```

```

char a[100],c[100];
printf("enter your array string");
fgets(a,100,stdin);
printf("enter your staring last destination");
scanf("%d",&N);

for(i=0;i<N;i++)
{
    c[i]=a[i];

}
c[i]='\0';
printf("%s",c);

getch();
}

/*****
Q 22.Write a C program which accept string from user and
accept number N then copy last N character into some another
string.
Output String: India is
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BATCH: PPA9
*****/
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,j=0,N;

    char a[100],c[100];
    printf("enter your array string");
    fgets(a,100,stdin);
    printf("enter your staring last destination");
    scanf("%d",&N);
    while(a[i]!='\0')
    {
        c[i]=a[i];
        i++;
    }

    for(i=0;i<N;i++)
    {
        printf("%c",c[i]);
    }
}

```

```

        getch();
    }

/*****
    Q 23. Write a C program which accept two strings from user and
           append second string after first string.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*****/
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,j=0;

    char a[100],c[100];
    printf("enter your array string");
    fgets(a,100,stdin);

    while(a[i]!='\0')
    {
        if(a[i]==' ')
        {

        }
        else{
            c[j]=a[i];
            j++;
        }
        i++;
    }
    for(i=0;i<j;i++)
    {
        printf("%c",c[i]);
    }

    getch();
}

/*****
    Q 24. Write a C program which accept two strings from user and
           append N characters of second string
           after first string.
    Eg:
    Input String: India Country
    Input of N: 4
    Output String: IndiaCoun
OWNER: AKSHAY GANGARAM KADAM

```

BATCH: PPA9

*****/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    int i=0,j=0,N=0,temp,n,p,k;
```

```
    char a[100],c[100],b[100];
```

```
    printf("enter your array 1 string");
```

```
    fgets(a,100,stdin);
```

```
    printf("enter your array 2 string");
```

```
    fgets(b,100,stdin);
```

```
    printf("enter your 2nd string upto element");
```

```
    scanf("%d",&N);
```

```
    while(a[i]!='\0')
```

```
    {
```

```
        c[j]=a[i];
```

```
        j++;
```

```
        i++;
```

```
    }
```

```
    k=temp=j-1;
```

```
    i=0;
```

```
    p=0;
```

```
    while(b[i]!='\0')
```

```
    {
```

```
        c[k]=b[i];
```

```
        k++;
```

```
        p++;
```

```
        i++;
```

```
    }
```

```
    n=p-N;
```

```
    temp=temp+n;
```

```
    for(i=0;i<temp;i++)
```

```
    {
```

```
        printf("%c",c[i]);
```

```
    }
```

```
    getch();
```

```
}
```

*****/

- Q 25. Write a C program which accept two strings from user and compare two strings. If both strings are equal then return 0 otherwise return difference between first mismatch character.
Eg:

Input String1: India is my country.
Input String2: India is my country.
Output: Both strings are equal.

OWNER: AKSHAY GANGARAM KADAM

BATCH: PPA9

*****/

```
#include <stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{  int n,i=0,j=0,flag=0;
```

```
    char a[100],b[100];
```

```
    printf("ENTER YOUR 1st string");
```

```
    fgets(a,100,stdin);
```

```
    printf("ENTER YOUR 2st string");
```

```
    fgets(b,100,stdin);
```

```
    while(a[i]!='\0' && b[j]!='\0')
```

```
    {
```

```
        if(a[i]==b[j])
```

```
        {
```

```
            i++;
```

```
            j++;
```

```
        }
```

```
        else
```

```
        {
```

```
            flag=1;
```

```
            printf("the diff char in both string is= %c , and= %c",a[i],b[j]);
```

```
            break;
```

```
        }
```

```
    }
```

```
    if(flag==0)
```

```
    {
```

```
        printf("both string are equal");
```

```
    }
```

```
    getch();
```

```
}
```

*****/

Q26 .Write a C program which accept two strings from user and
compare only first N characters of two strings. If both strings

are equal till first N characters then return 0 otherwise return difference between first mismatch character.

Eg:

Input String1: Ramayan

Input String2: Ramanacharya

Input of N: 4

Output: Both strings are equal.

OWNER: AKSHAY GANGARAM KADAM

BATCH: PPA9

*****/

```
#include <stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{   int n,i=0,j=0,flag=0,N,size1=1,size2=1,p=0;
```

```
    char a[100],b[100];
```

```
    printf("ENTER YOUR 1st string");
```

```
    fgets(a,100,stdin);
```

```
    printf("ENTER YOUR 2st string");
```

```
    fgets(b,100,stdin);
```

```
    printf("enter compare upto N characters of two strings.");
```

```
    scanf("%d",&N);
```

```
    while(a[i]!='\0')
```

```
    {
```

```
        size1++;
```

```
        i++;
```

```
    }
```

```
    while(b[j]!='\0')
```

```
    {
```

```
        size2++;
```

```
        j++;
```

```
    }
```

```
    if(size1+1>N && size2+1>N)
```

```
    {
```

```
        i=0;
```

```
        j=0;
```

```
        while(p<=N-1)
```

```
        {
```

```
            if(a[i]==b[j])
```

```
            {
```

```
                j++;
```

```
                i++;
```

```
                p++;
```

```
            }
```

```
            else
```

```
            {
```

```
                flag=1;
```

```
                printf("the diff char in both string is= %c , and= %c",a[i],b[j]);
```

```

        break;
    }

}

if(flag==0)
{
    printf("both string are equal");
}
else
{
    printf("**** YOUR N size out of bound plase enter in bound size
*****");
}

getch();

}

```

```

/*****
Q27 : Write a C program which accept two strings from user and
       compare two strings without case sensitivity. If both strings
       are equal then return 0 otherwise return difference between
       first mismatch character.
Eg:
Input String1: india Is mY cOuntry
Input String2: INDIA is MY countrY
Output: Both strings are equal.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*****/

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,n,j=0,p=0,N,flag=0;

    char a[100],d[100];
    int b[100],e[100];
    char c[100],f[100];
    printf("enter your array string");
    fgets(a,100,stdin);

```

```
printf("enter your array string");
fgets(d,100,stdin);
```

```
while(a[i]!='\0')
{
    b[j]=a[i];
    j++;
    i++;
}
```

```
n=i;
for(i=0,j=0;i<n;i++,j++)
{
    if(b[i]>=97 && b[i]<123)
    {
        c[i]=b[i];
    }
    else
    if(b[i]<97 && b[i]>64)
    {
        p=b[i];
        c[j]=p+32;

    }
    else if(b[i]==' ')
    {
        c[j]=' ';
    }
}
```

```
// *****
```

```
i=0;
j=0;
p=0;
n=0;
while(d[i]!='\0')
{
    e[j]=d[i];
    j++;
    i++;
}
```

```
n=i;
for(i=0,j=0;i<n;i++,j++)
{
    if(e[i]>=97 && e[i]<123)
    {
        f[i]=e[i];
    }
}
```



```

        else
        if(e[i]<97 && e[i]>64)
        {
            p=e[i];
            f[j]=p+32;

        }
        else if(e[i]==' ')
        {
            f[j]=' ';
        }
    }
    //*****
    i=0;
    j=0;
    while(c[i]!='\0' && f[j]!='\0')
    {
        if(c[i]==f[j])
        {
            i++;
            j++;
        }
        else
        {
            flag=1;
            printf("the diff char in both string is= %c , and= %c",c[i],f[j]);
            break;
        }
    }

    if(flag==0)
    {
        printf("both string are equal");
    }

    getch();
}

```

/******

Q 28. Write a C program which accept string from user and then reverse the string till first N characters without taking another string.

Eg:

Input String: India is my country

Input of N: 8

Output : m si aidnIy country

OWNER: AKSHAY GANGARAM KADAM

BATCH: PPA9

*****/

```
#include <stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    int i=0,count=0,c=0,A=0,sp=0,N,j=0;
```

```
    char a[100],temp;
```

```
    printf("ENTER YOUR STRING");
```

```
    fgets(a,100,stdin);
```

```
    printf("ENTER YOUR UPTO REV STARING VALU OF N");
```

```
    scanf("%d",&N);
```

```
    while(a[i]!='\0')
```

```
    {
```

```
        count++;
```

```
        i++;
```

```
    }
```

```
    i=0;
```

```
    while(1)
```

```
    {
```

```
        if(a[i]==' ')
```

```
        {
```

```
            i++;
```

```
            sp++;
```

```
        }
```

```
        else
```

```
        {
```

```
            i++;
```

```
            c++;
```

```
        }
```

```
        A++;
```

```
        if(N==c)
```

```
        {
```

```
            break;
```

```
        }
```

```
    }
```

```
    j=0;
```

```
    i=A-1;
```

```

while(j<i)
{
    temp=a[i];
    a[i]=a[j];
    a[j]=temp;
    j++;
    i--;
}

for(i=0;i<count;i++)
{
    printf("%c",a[i]);
}

getch();
}

```

```

/*****
Q29 .Write a C program which accept string from user and then
accept range and reverse the string in that range without
taking another string.
Eg:
Input String: India is my country
Input of N1: 3
Input of N1: 9
Output String: Indm si aicountry
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*****/

```

```

#include <stdio.h>
#include<conio.h>

void main()
{
    int i=0,count=0,c=0,A=0,B=0,sp=0,N1,N2,j=0;
    char a[100],temp;

    printf("ENTER YOUR STRING");
    fgets(a,100,stdin);

    printf("ENTER YOUR UPTO REV STARING VALU OF N");
    scanf("%d",&N1);
    printf("ENTER YOUR UPTO REV STARING VALU OF N");
    scanf("%d",&N2);
}

```

```

while(a[i]!='\0')
{
    count++;
    i++;
}
i=0;
while(1)
{
    if(a[i]==' ')
    {
        i++;
        sp++;
    }
    else
    {
        i++;
        c++;
    }
    A++;

    if(N2==c)
    {
        break;
    }
}

```

```

c=0;
i=0;

while(1)
{
    if(a[i]==' ')
    {
        i++;
    }
    else
    {
        i++;
        c++;
    }
    B++;

    if(N1==c)
    {
        break;
    }
}

```

```

    }

    j=B;
    i=A-1;

    while(j<i)
    {
        temp=a[i];
        a[i]=a[j];
        a[j]=temp;
        j++;
        i--;
    }

    for(i=0;i<count;i++)
    {
        printf("%c",a[i]);
    }

    getch();
}

```

```

/*****
30. Write a C program which accept string from user and
    reverse words from that string which are of even length.
    Eg:
    Input String: India is my country. I love my country.
    Output String: India si ym .yrtnuoc I evol ym . Yrtnuoc

```

OWNER: AKSHAY GANGARAM KADAM
 BATCH: PPA9

*****/

```

#include <stdio.h>
#include <conio.h>

void main()

{
    int n,i=0,temp=0,count=0,N=0,even=0,odd=0;

    char a[100];
    printf("ENTER YOUR string");
    fgets(a,100,stdin);

```

```

while(a[i]!='\0')
{
    N=0;
    while(a[i]!=' ' && a[i]!='\n')
    {
        while(a[i]!=' ' && a[i]!='\n')
        {
            i++;
            N++;
        }
        if(N%2==0)
        {
            temp=i-1;
            while(temp>=0 && a[temp]!=' ')
            {
                printf("%c",a[temp]);
                temp--;
            }
        }
        else
        {
            temp=i-1;
            while(temp<=0 && a[temp]!=' ')
            {
                printf("%c",a[temp]);
                temp++;
            }
        }
    }

    if(a[i]==' ')
    {
        printf("%c",' ');
    }

    i++;
}

getch();
}

```

/*****

31. Write a C program which accept string from user and check whether string is palindrome or not.

Eg:
Input String: level
Output String: String is palindrome.

OWNER: AKSHAY GANGARAM KADAM

BATCH: PPA9

*****/

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    char s[100];
```

```
    int i,n,c=0,p=0;
```

```
    printf("Enter the string ");
```

```
    fgets(s,sizeof(s),stdin);
```

```
    i=0;
```

```
    while(s[i]!='\n')
```

```
    {
```

```
        p++;
```

```
        i++;
```

```
    }
```

```
    n=p;
```

```
    for(i=0;i<n/2;i++)
```

```
    {
```

```
        if(s[i]==s[n-i-1])
```

```
        c++;
```

```
    }
```

```
    if(c==i)
```

```
        printf("string is palindrome");
```

```
    else
```

```
        printf("string is not palindrome");
```

```
    getch();
```

```
}
```

/*****

32. Write a C program to count number of alphabates, spaces
and words in given string

OWNER: AKSHAY GANGARAM KADAM

BATCH: PPA9

*****/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```

void main()
{
    int small=0,Capital=0,digit=0,sp=0,i=0,j=0,n;

    char a[100];
    int b[100];
    printf("enter your array string");
    fgets(a,100,stdin);

    while(a[i]!='\0')
    {
        b[j]=a[i];
        j++;
        i++;
    }
    n=i;
    for(i=0;i<n;i++)
    {
        if(b[i]>=48 && b[i]<58)
        {
            digit++;
        }
        if(b[i]>=65 && b[i]<91)
        {
            Capital++;
        }
        if(b[i]>=97 && b[i]<123)
        {
            small++;
        }
        if(b[i]==' ')
        {
            sp++;
        }
    }
    printf("the Capital=%d\n the digit=%d\n the small=%d\nthe
sp=%d",Capital,digit,small,sp);

    getch();
}

```