```c
/*
Title- Write a C program to accept string with multiple spaces from user and print
as it is.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
void main()
{
    char str[100];
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    printf("Accepted string is: %s\n",str);
}
```

```c
/*
Title- Write a C program to accept string with multiple spaces from user and print
it with a sinlge space as
a delimiter.
Eg:
Input String:
_____India_____is_my_________country____________________
Output String:
India_is_my_country
(Consider _ as space)
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100];
    int i,j;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);

//     removing multiple spaces
    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32 && str[j+1]==32)
        {
            for(i=j;str[i]!='\0';i++)
            {
                str[i]=str[i+1];
            }

        }
        if(str[j]==32 && str[j-1]==32 && j!=0)
        {
            j-=2;

        }
    }


//    to remove all the spaces at start and end
```

```
    if(str[0]==32)
    {
        for(j=0;str[j]!='\0';j++)
        {
            str[j]=str[j+1];
        }
    }
    if(str[0]==32)
    {

    }
    else
    {
        for(j=0;str[j]!='\0';j++);
        if(str[j-1]==10 && str[j-2]==32)
        {
            j--;
            str[j-1]=str[j];
            str[j]=str[j+1];
        }
        if(str[j-1]==32&& str[j]=='\0')
        {
            str[j-1]=str[j];
        }
    }
    printf("%s\n",str);
}
```

```
/*
Title- Write a C program to print count of number characters in given string.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
void main()
{
    char str[100];
    int i,count=0;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!='\0';i++)
    {
        if(str[i]>=48 && str[i]<=57)
        {
            count++;
        }
    }
    printf("No. of numeric characters in above string are: %d\n",count);

}
```

```
/*
Title- 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.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/

#include<stdio.h>
void main()
{
    char str[100];
    int i;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!='\0';i++);
    i--;
    if(str[i]==10)
    {
        i--;
    }
    printf("Reverse string is:");
    for( ;i>=0;i--)
    {
        printf("%c",str[i]);
    }
    printf("\n");
}




/*
Title- Write a C program to count count of number of vowels and number of
consonants in the given
string.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100];
    int i,vovels=0,consonants=0;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!=0;i++)
    {
        if(str[i]=='a' || str[i]=='e' || str[i]=='i' || str[i]=='o' || str[i]=='u'
|| str[i]=='A' || str[i]=='E' || str[i]=='I' || str[i]=='O' || str[i]=='U')
        {
            vovels++;
        }
        else
            if((str[i]>=65 && str[i]<=90) || (str[i]>=97 && str[i]<=122))
            {
                consonants++;
            }
    }
```

```
    printf("No. of Vovels are: %d\nNo. of Consonants are: %d\n",vovels,consonants);

}
```

```
/*
Title- Write a C program to reverse a given string as below.
Eg:
Input String:
India is my country
Output String:
aidnI si ym yrtnuoc
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100],temp;
    int i,j,k;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);


//     logic for swapping each word at its place

    for(j=0;str[j]!='\0'; )
    {
        for(i=j;str[i]!=32 && str[i]!='\0';i++);
        i--;
        if(str[i]==10)
        {
            i--;
        }
        k=i;
        for( ;j<=i;j++,i--)
        {
            temp=str[j];
            str[j]=str[i];
            str[i]=temp;
        }
        j=k;
        j++;
        if(str[j]==32)
        {
            for( ;str[j]==32;j++);
        }
        else
        {
            if(str[j]==10)
            {
                j+=2;
            }
            else
            {
                j++;
            }
```

```
        }
    }
    printf("final output is: %s\n",str);
}
```

```
/*
Title- Write a C program to replace space with ‘$’ in given string.
Eg:
Input String:
India is my country
Output String:
India$is$my$coutry
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
void main()
{
    char str[100];
    int i;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!='\0';i++)
    {
        if(str[i]==32)
        {
            str[i]='$';
        }
    }
    printf("Output string: %s\n",str);
}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
void main()
{
    char str[100];
    int i,j,count=0;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
```

```
//     logic to remove extra spaces

    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32 && str[j+1]==32)
        {
            for(i=j;str[i]!='\0';i++)
            {
                str[i]=str[i+1];
            }

        }
        if(str[j]==32 && str[j-1]==32 && j!=0)
        {
            j-=2;

        }
    }
    if(str[0]==32)
    {
        for(j=0;str[j]!='\0';j++)
        {
            str[j]=str[j+1];
        }
    }
    if(str[0]==32)
    {

    }
    else
    {
        for(j=0;str[j]!='\0';j++);
        if(str[j-1]==10 && str[j-2]==32)
        {
            j--;
            str[j-1]=str[j];
            str[j]=str[j+1];
        }
        if(str[j-1]==32&& str[j]=='\0')
        {
            str[j-1]=str[j];
        }
    }

// logic to count words in sentence


    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32)
        {
            count++;
        }
    }
    printf("the total no. of words is a sentence are: %d\n",count+1);
}
```

```c
/*
Title- Write a C program to replace Good names in mail.
Eg:
Raw String:
Hello GoodName
Input String:
India
Output String:
Hello India
Input String:
Sangamner
Output String:
Hello Sangamner
Input String:
technOrbit
Output String:
Hello technOrbit
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
void main()
{
    char raw_str[100]="Hello GoodName",str[93];
    int i=6,j;
    printf("Enter your goodname: ");
    fgets(str,sizeof(str),stdin);
    for(j=0;str[j]!='\0';j++,i++)
    {
      raw_str[i]=str[j];
    }
    raw_str[i]='\0';
    printf("%s\n",raw_str);
}
```

```c
/*
Title- Write a C program to print all fibonacci series upto each ASCII code of
aphabates in given string.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/

#include<stdio.h>
void main()
{
    char str[100];
    int i,j,k,x;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(k=0;str[k]!='\0';k++)
    {
        if((str[k]>=65 && str[k]<=90) || (str[k]>=97 && str[k]<=122))
        {
            j=1;
            i=0;
            printf("%d=[",str[k]);
            while(i<=str[k])
```

```
            {
                printf("%d, ",i);
                x=i;
                i=i+j;
                j=x;


            }
            printf("]\n");
        }
    }

}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/

#include<stdio.h>
void main()
{
    char str[100];
    int i;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!='\0';i++)
    {
       if(str[i]=='a' || str[i]=='z')
       {
           str[i]='\0';
           break;
       }
    }
    printf("output string: %s\n",str);
}
```

```
/*
Title- 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.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/



#include<stdio.h>
void main()
{
    char str[100];
    int i,small=0,capital=0,digits=0,spaces=0;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!='\0';i++)
    {
       if(str[i]>=65 && str[i]<=90)
       {
           capital++;
       }
       else
       {
           if(str[i]>=97 && str[i]<=122)
           {
               small++;
           }
           else
           {
               if(str[i]>=48 && str[i]<=57)
               {
                   digits++;
               }
               else
               {
                   if(str[i]==32)
                   {
                       spaces++;
                   }
               }
           }
       }
    }
    printf("small=
%d\ncapital=%d\ndigits=%d\nspaces=%d\n",small,capital,digits,spaces);
}




/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
```

```
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100];
    int i,count=0;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!=0;i++)
    {
        if(str[i]==32)
        {
            count++;
        }
    }
    printf("no. of white spaces are: %d\n",count);
}




/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100];
    int i,j,k,even=0,odd=0,count;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);

//      removing multiple spaces
    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32 && str[j+1]==32)
        {
            for(i=j;str[i]!='\0';i++)
            {
                str[i]=str[i+1];
            }

        }
        if(str[j]==32 && str[j-1]==32 && j!=0)
        {
```

```
            j-=2;

        }
    }


//    to remove all the spaces at start and end
    if(str[0]==32)
    {
        for(j=0;str[j]!='\0';j++)
        {
            str[j]=str[j+1];
        }
    }
    if(str[0]==32)
    {

    }
    else
    {
        for(j=0;str[j]!='\0';j++);
        if(str[j-1]==10 && str[j-2]==32)
        {
            j--;
            str[j-1]=str[j];
            str[j]=str[j+1];
        }
        if(str[j-1]==32&& str[j]=='\0')
        {
            str[j-1]=str[j];
        }
    }

//     to  count the characters in a word

    for(j=0;str[j]!='\0'; )
    {
        count=0;
        for(i=j;str[i]!=32 && str[i]!='\0';i++);
        i--;
        if(str[i]==10)
        {
            i--;
        }
        k=i;
        for( ;j<=i;j++)
        {
            count++;
        }
        j=k;
        if(str[j+1]==32 || str[j+1]==10)
        {
            j+=2;
        }
        else
        {
            j++;
        }
//         to check the count is even or odd
        if(count%2==0)
        {
            even++;
        }
        else
        {
            odd++;
```

```
        }

    }
    printf("even no. of words : %d\nOdd no. of words: %d\n",even,odd);
}
```

```
/*
Title- Write a C program which accept sentence from user and print last word from
that sentence.
Eg:
Input String:
India is my country
Output String:
country
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100];
    int i;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    for(i=0;str[i]!='\0';i++);
    i--;
    if(str[i]==10)
    {
        i--;
    }
    while(str[i]==32)
    {
        i--;
    }
    while(str[i]!=32 && i!=-1)
    {
        i--;
    }
    i++;
    for(i;str[i]!='\0';i++)
    {
        printf("%c",str[i]);
    }
}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/



#include<stdio.h>
void main()
{
    char str[100];
    int i,j,count=0,n,flag=0;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    printf("enter the no. of word which you want to print from string: ");
    scanf("%d",&n);

//     removing multiple spaces
    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32 && str[j+1]==32)
        {
            for(i=j;str[i]!='\0';i++)
            {
                str[i]=str[i+1];
            }

        }
        if(str[j]==32 && str[j-1]==32 && j!=0)
        {
            j-=2;

        }
    }


//    to remove all the remaining spaces at start and end
    if(str[0]==32)
    {
        for(j=0;str[j]!='\0';j++)
        {
            str[j]=str[j+1];
        }
    }
    if(str[0]==32)
    {

    }
    else
    {
        for(j=0;str[j]!='\0';j++);
        if(str[j-1]==10 && str[j-2]==32)
        {
            j--;
            str[j-1]=str[j];
            str[j]=str[j+1];
        }
        if(str[j-1]==32&& str[j]=='\0')
```

```
        {
            str[j-1]=str[j];
        }
    }

//     to  count the characters in a word

    for(j=0;str[j]!='\0'; )
    {
        for(i=j;str[i]!=32 && str[i]!='\0';i++);
        i--;
        if(str[i]==10)
        {
            i--;
        }
        count++;
        if(count==n)
        {
            printf("word is: ");
            for( ;j<=i;j++)
            {
                printf("%c",str[j]);
            }
            printf("\n");
            flag=1;
            break;
        }
        j=i;
        if(str[j+1]==32 || str[j+1]==10)
        {
            j+=2;
        }
        else
        {
            j++;
        }

    }
    if(flag==0)
    {
        printf("less words in the string\n");
    }
}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/

#include<stdio.h>
void main()
```

```
{
    char str[100];
    int i;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    printf("String in lower case is: ");
    for(i=0;str[i]!='\0';i++)
    {
        if(str[i]>=65 && str[i]<=90)
        {
            printf("%c",str[i]+32);
        }
        else
        {
            printf("%c",str[i]);
        }
    }

}
```

```
/*
Title- Write a C program which toggles the case of a string.
Eg:
Input String:
technOrbit Infosystems
Output String:
TECHNoRBIT iNFOSYSTEMS
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/

#include<stdio.h>
void main()
{
    char str[100];
    int i;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    printf("Toggle String is: ");
    for(i=0;str[i]!='\0';i++)
    {
        if(str[i]>=65 && str[i]<=90)
        {
            printf("%c",str[i]+32);
        }
        else
        {
            if(str[i]>=97 && str[i]<=122)
            {
                printf("%c",str[i]-32);
            }
            else
            {
                printf("%c",str[i]);
            }

        }
    }
```

```
}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str1[100],str2[100],temp;
    int i,j,flag=0;
    printf("enter the 1st string: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the 2nd string: ");
    fgets(str2,sizeof(str2),stdin);
//      sorting of string1
    for(i=0;str1[i]!='\0';i++)
    {
        for(j=i+1;str1[j]!='\0';j++)
        {
            if(str1[i]>str1[j])
            {
                temp=str1[i];
                str1[i]=str1[j];
                str1[j]=temp;
            }
        }
    }
//      sorting string2
    for(i=0;str2[i]!='\0';i++)
    {
        for(j=i+1;str2[j]!='\0';j++)
        {
            if(str2[i]>str2[j])
            {
                temp=str2[i];
                str2[i]=str2[j];
                str2[j]=temp;
            }
        }
    }
//      checking string are equals or not
    for(i=0;str1[i]!='\0' || str2[i]!='\0';i++)
    {
        if(str1[i]!=str2[i])
        {
            flag=1;
            break;
        }
```

```
    }
    if(flag==0)
    {
        printf("string is Anagram.\n");
    }
    else
    {
        printf("string is not Anagram.\n");
    }
}
```

```
/*
Title- Write a C program which accept string from user and copy that string into
some another string.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
void main()
{
    char str1[100],str2[100];
    int i;
    printf("enter the string: ");
    fgets(str1,sizeof(str1),stdin);
    for(i=0;str1[i]!='\0';i++)
    {
        str2[i]=str1[i];
    }
    str2[i]='\0';
    printf("copied string is: %s",str2);

}
```

```
/*
Title- Write a program which accept string from user and copy first N charaters
into some destination
string.
Eg:
Input String:
India is my country
Input of N:
8
Output String:
India is
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
```

```c
void main()
{
    char str1[100],str2[100];
    int i,n;
    printf("enter the string: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the number upto which you want a string: ");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        str2[i]=str1[i];
    }
    str2[i]='\0';
    printf("final string is: %s\n",str2);
}
```

```c
/*
Title- Write a C program which accept string from user and accept number N then
copy last N character
into some another string.
Eg:
Input String:
India is my country
Input of N:
5
Output String:
is my
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str1[100],str2[100];
    int i,n,j=0;
    printf("enter the string: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the number: ");
    scanf("%d",&n);
    for(i=0;str1[i]!='\0';i++);
    i--;
    printf("%d\n",i);
    for(i=i-n;str1[i]!='\0';i++,j++)
    {
        str2[j]=str1[i];
    }
    str2[j]='\0';
    printf("final string is: %s\n",str2);
}
```

```
/*
Title- Write a C program which accept two strings from user and append second
string after first string.
Eg:
Input String:
India Country
Output String:
IndiaCountry
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str1[200],str2[100];
    int i,j;
    printf("enter the string1: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the string2: ");
    fgets(str2,sizeof(str1),stdin);
    for(i=0;str1[i]!='\0';i++);
    i--;
    if(str1[i]==10)
    {
        i--;
    }
    for(j=0;str2[j]!='\0';i++,j++)
    {
        str1[i]=str2[j];
    }
    str1[i]='\0';
    printf("\nfinal string is: %s\n",str1);
}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
```

```
*/
#include<stdio.h>
void main()
{
    char str1[200],str2[100];
    int i,j,n;
    printf("enter the string1: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the string2: ");
    fgets(str2,sizeof(str2),stdin);
    printf("enter how many characters of 2nd srting you want to add in 1st string:
");
    scanf("%d",&n);
    for(i=0;str1[i]!='\0';i++);
    if(str1[i-1]==10)
    {
        i--;
    }
    for(j=0;j<n;i++,j++)
    {
        str1[i]=str2[j];
    }
    str1[i]='\0';
    printf("\nfinal string is: %s\n",str1);
}
```

```
/*
Title- 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.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/

#include<stdio.h>
void main()
{
    char str1[100],str2[100];
    int i,j,flag=0;
    printf("enter the string1: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the string2: ");
    fgets(str2,sizeof(str2),stdin);
    for(i=0;str1[i]!='\0'|| str2[i]!='\0';i++)
    {
        if(str1[i]!=str2[i])
        {
            flag=1;
```

```
            break;
        }
    }
    if(flag==0)
    {
        printf("0\n");
    }
    else
    {
        printf("difference is: \n str1[%d] = %c \n str2[%d] =
%c\n",i,str1[i],i,str2[i]);
    }
}
```

```
/*
Title- 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.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/
#include<stdio.h>
void main()
{
    char str1[100],str2[100];
    int i,j,n,flag=0;
    printf("enter the string1: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the string2: ");
    fgets(str2,sizeof(str2),stdin);
    printf("enter upto how many characters you want to check strings: ");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        if(str1[i]!=str2[i])
        {
            flag=1;
            break;
        }
    }
    if(flag==0)
    {
        printf("0\n");
    }
    else
    {
```

```
        printf("difference is: \n str1[%d] = %c \n str2[%d] =
%c\n",i,str1[i],i,str2[i]);
    }
}
```

```
/*
Title- 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.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str1[100],str2[100];
    int i,flag=0;
    printf("enter the string 1: ");
    fgets(str1,sizeof(str1),stdin);
    printf("enter the string2: ");
    fgets(str2,sizeof(str2),stdin);
    for(i=0;str1[i]!='\0' || str2[i]!='\0';i++)
    {
        if((str1[i]>=97 && str1[i]<=122) && (str2[i]>=65 && str2[i]<=90))
        {
            if((str1[i]-32)!=str2[i])
            {
                flag=1;
                break;
            }
        }
        else
        {
            if((str2[i]>=97 && str2[i]<=122) && (str1[i]>=65 && str1[i]<=90))
            {
                if(str1[i]!=(str2[i]-32))
                {
                    flag=1;
                    break;
                }
            }
            else
            {
               if(str1[i]!=str2[i])
                {
```

```
                    flag=1;
                    break;
                }
            }
        }
    }
    if(flag==0)
    {
        printf("0\n");
    }
    else
    {
        printf("difference is:
\nstr1[%d]=%c\nstr2[%d]=%c\n",i+1,str1[i],i+1,str2[i]);
    }
}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100],temp;
    int i,n,count;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    printf("enter the number: ");
    scanf("%d",&n);


// to count n characters in string
    for(i=0;count<n;i++)
    {
        if(str[i]!=32)
        {
            count++;
        }
    }
    printf("%d\n",i);
    i--;
```

```
// to reverse string upto count
    for(count=0;count<=i;count++,i--)
    {
        temp=str[i];
        str[i]=str[count];
        str[count]=temp;
    }

    printf("final string is: %s",str);

}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100],temp;
    int i,j,m,n,count=0;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    printf("enter the starting range: ");
    scanf("%d",&m);
     printf("enter the ending range: ");
    scanf("%d",&n);
    if(m<n)
    {
        for(i=0;count<m;i++)
        {
            if(str[i]!=32)
            {
                count++;
            }
        }
        printf("%d\n",i);
        i--;
        count=0;
        for(j=0;count<n;j++)
        {
```

```
            if(str[j]!=32)
            {
                count++;
            }
        }
        printf("%d\n",j);
        j--;
        for(i;i<=j;i++,j--)
        {
            temp=str[i];
            str[i]=str[j];
            str[j]=temp;
        }
        printf("final string is: %s\n",str);
    }
    else
    {
        printf("enter the proper range.\n");
    }

}
```

```
/*
Title- 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
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/



#include<stdio.h>
void main()
{
    char str[100],temp;
    int i,j,k,count,x;
    printf("Enter the string: ");
    fgets(str,sizeof(str),stdin);

//     to  count the characters in a word

    for(j=0;str[j]!='\0'; )
    {
        count=0;
        for(i=j;str[i]!=32 && str[i]!='\0';i++);
        i--;
        if(str[i]==10)
        {
            i--;
        }
```

```
        k=i;
        x=j;
        for( ;j<=i;j++)
        {
            count++;
        }
        j=x;
//         to check the count is even or not
        if(count%2==0)
        {
    //     logic for swapping each word at its place
           for( ;j<=i;j++,i--)
                {
                    temp=str[j];
                    str[j]=str[i];
                    str[i]=temp;
                }
        }
        j=k;
        if(str[j+1]==32 || str[j+1]==10)
        {
            j+=2;
        }
        else
        {
            j++;
        }

    }
    printf("final output is: %s\n",str);

}
```

```
/*
Title-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.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/

#include<stdio.h>
void main()
{
    char str[100];
    int i=0,j,flag=0;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
    while(str[i]!='\0')
    {
        i++;
```

```
    }
    i--;
    if(str[i]==10)
    {
        i--;
    }
    for(j=0;j<=i;j++,i--)
    {
        if(str[j]!=str[i])
        {
            flag=1;
            break;
        }
    }
    if(flag==0)
    {
        printf("string is palindrome\n");
    }
    else
    {
        printf("string is not palindrome\n");
    }

}
```

```
/*
Title- Write a C program to count number of alphabates, spaces and words in given
string.
Author- Bhakare Mahesh Santosh
ID- 492
Batch- TechnOrbit(PPA-8)
*/


#include<stdio.h>
void main()
{
    char str[100];
    int j,i,space=0,alpha=0,count=0;
    printf("enter the string: ");
    fgets(str,sizeof(str),stdin);
//      logic to count spaces and alphabets
    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32)
        {
            space++;
        }
        else
        {
            if((str[j]>=65 && str[j]<=90) || (str[j]>=97 && str[j]<=122))
            {
                alpha++;
            }
```

```
        }
    }
    //     logic to remove extra spaces

    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32 && str[j+1]==32)
        {
            for(i=j;str[i]!='\0';i++)
            {
                str[i]=str[i+1];
            }

        }
        if(str[j]==32 && str[j-1]==32 && j!=0)
        {
            j-=2;

        }
    }
    if(str[0]==32)
    {
        for(j=0;str[j]!='\0';j++)
        {
            str[j]=str[j+1];
        }
    }
    if(str[0]==32)
    {

    }
    else
    {
        for(j=0;str[j]!='\0';j++);
        if(str[j-1]==10 && str[j-2]==32)
        {
            j--;
            str[j-1]=str[j];
            str[j]=str[j+1];
        }
        if(str[j-1]==32&& str[j]=='\0')
        {
            str[j-1]=str[j];
        }
    }

// logic to count words in sentence


    for(j=0;str[j]!='\0';j++)
    {
        if(str[j]==32)
        {
            count++;
        }
    }
    count+=1;
    printf("spaces= %d\nalphabets= %d\nwords= %d\n",space,alpha,count);
}
```