```
1. Write a C program to accept string with multiple spaces from
user and print as it is.
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
    getch();
}
```

2. Write a C program to accept string with multiple spaces from

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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)
#include<stdio.h>
#include<conio.h>
void main()
{
      int i=0,j=0;
      char str[100];
      printf("Please enter a String\n");
      fgets(str,sizeof(str), stdin);
      printf("\nGiven string is \n%s",str);
      while(str[i]!='\n')
      {
            while(str[i]==' ' && str[i]!='\n')
            {
                  i++;
```

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}
       while(str[i]!=' '&& str[i]!='\n')
       {
              printf("%c",str[i]);
              if(str[i+1]==' ')
              {
                     j=i+1;
                     while(str[j]!='\n')
                     {
                            if(str[j]!=' ')
                            {
                                   printf(" ");
                                    break;
                            }
                            j++;
                     }
              }
              i++;
       }
}
```

```
getch();
}
3. Write a C program to print count of number characters in
given string.
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,count=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
     while(str[i]!='\n')
     {
          if(str[i] >= 'A' \&\& str[i] <= 'z')
          {
                count++;
          }
```

```
i++;
     }
     printf("\nNumber of Characters = %d",count);
     getch();
}
4. 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 aidnl
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0,count=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
```

```
printf("\nReverse string is\n");
while(str[i]!='\n')
{
      i++;
}
i--;
while(i>=0)
{
      while(str[i]==''&&i>=0)
      {
             i--;
      }
      while(str[i]!=' ' && i>=0)
      {
             printf("%c", str[i]);
             if(str[i-1]==' ')
             {
                    count=0;
                    j=i-1;
                    while(j>=0)
                    {
                           if(str[j]!=' ')
                           {
                                  count++;
```

```
break;
                       }
                       j--;
                   }
                   if(count>0)
                   {
                       printf(" ");
                   }
              }
              i--;
         }
    }
    getch();
}
5. Write a C program to count count of number of vowels and
number of consonants in the given string.
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,consonat=0,vowels=0;
```

```
char str[100];
       printf("Please enter a String\n");
      fgets(str,sizeof(str), stdin);
       printf("\nGiven string is \n%s",str);
      while(str[i]!='\n')
       {
       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')
             {
                    vowels++;
                    i++;
             }
              else
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')&&(str[i]<='z'&&str[i]>='A'))
             {
                    consonat++;
                    i++;
             else i++;
       }
       printf("\nConsonants = %d\nVowels = %d\n",consonat,vowels);
```

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getch();
}
6. Write a C program to reverse a given string as below.
Eg:
Input String: India is my country
Output String: aidnl si ym yrtnuoc
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0,count=0,count1=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str),stdin);
     printf("\nGiven string is \n%s",str);
     //to reverse words in sentence
     while(str[i]!='\n')
     {
```

```
while(str[i]==' '\&\&str[i]!='\n')
{
      i++;
}
count=0;
while(str[i]!='' \&\& str[i]!='\n')
{
       count++;
       i++;
}
j=i-1;
while(str[j]!=' '||j==0)
{
       printf("%c",str[j]);
      j--;
}
if(str[i]==' ')
{
       count1=0;
      j=i;
       while(str[j]!='n')
       {
              if(str[j]!=' ')
```

```
{
                        count1=1;
                        break;
                   }
                   j++;
              }
         }
         if(count1==1)
              printf(" ");
         }
    }
    getch();
}
7. Write a C program to replace space with '$' in given string.
Eg:
Input String: India is my country
Output String: India$is$my$coutry
#include<stdio.h>
#include<conio.h>
```

```
void main()
{
      int i=0,j=0,count=0;
       char str[100];
       printf("Please enter a String\n");
       fgets(str,sizeof(str), stdin);
       printf("\nGiven string is \n%s",str);
      while(str[i]!='\n')
       {
              while(str[i]==' ' && str[i]!='n')
              {
                     i++;
              }
              while(str[i]!=' '\&\& \ str[i]!=' \ 'n')
              {
                     printf("%c",str[i]);
                     if(str[i+1]==' ')
                     {
                            count=0;
                            j=i+1;
                            while(str[j]!='n')
```

```
{
                       if(str[j]!=' ')
                       {
                            count++;
                            break;
                       }
                       j++;
                  }
                  if(count>0)
                  {
                       printf("$");
                  }
              }
              i++;
         }
    }
    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
#include<stdio.h>
#include<conio.h>
void main()
{
      int i=0,count1=0,count=0;
      char str[100];
      printf("Please enter a String\n");
      fgets(str,sizeof(str), stdin);
      printf("\nGiven string is \n%s",str);
      while(str[i]!='\n')
      {
            while(str[i]==' ' && str[i]!='\n')
            {
                   i++;
            }
            count=0;
```

```
while(str[i]!=' '&& str[i]!='\n')
         {
               count++;
              i++;
          }
         if(count>0)
          {
               count1++;
         }
     }
     printf("\nNumber of Words = %d",count1);
    getch();
}
9. 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
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
      int i=0,j=0,count=0;
      char str1[100];
      char str[100] = "Hello GoodName";
      printf("Please enter a String to be replaced\n");
      fgets(str1,sizeof(str1), stdin);
      printf("\nGiven string is \n%s",str1);
      while(str[i]!=' ')
      {
             i++;
      }
      i++;
      while(str1[j]!='\n')
      {
             str[i]=str1[j];
             j++;
             i++;
      }
```

```
str[i]='\0';
     printf("Required String is \n%s",str);
     getch();
}
10.Write a C program to print all fibonacci series upto each
ASCII code of aphabates in given string.
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,a,b,c;
     char str[100];
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
```

```
printf("\nFibonacci serie are as follows\n");
while(str[i]!='\n')
{
      a=0;
      b=1;
      c=a+b;
      printf("%d %d",a,b);
      while(c<=str[i])
      {
             a = b;
             b = c;
             c = a+b;
             printf(" %d",c);
      }
      i++;
      printf("\n");
}
getch();
```

}

```
11. 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
#include<stdio.h>
#include<conio.h>
void main()
{
      int i=0,j=0;
      char str[100];
      printf("Please enter a String\n");
      fgets(str,sizeof(str),stdin);
      printf("\nGiven string is \n%s",str);
      while(str[i]!='\n')
      {
             while(str[i]==' '&&str[i]!='\n')
             {
                    i++;
             }
             while(str[i]!=' '&&str[i]!='\n')
```

```
{
               if(str[i]>'b' \ \&\& \ str[i]<'z')
               {
                      printf("%c",str[i]);
               }
               i++;
       }
       if(str[i]==' ')
       {
               j=i;
               while(str[j]!='\n')
               {
                      if(str[j]!=' ')
                      {
                              printf(" ");
                              break;
                      }
                      j++;
               }
       }
}
getch();
```

```
}
12. 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 O
Output String: Small: 5 Capital: 4 Digits: 2 Spaces: 2
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,small=0,capital=0,digit=0,spaces=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
     while(str[i]!='\n')
     {
           if(str[i]<='z' && str[i]>='a')
           {
```

```
small++;
       i++;
}
else if(str[i]>='A' && str[i]<='Z')
{
       capital++;
       i++;
}
else if(str[i]>='0' && str[i]<='9')
{
       digit++;
       i++;
}
else if(str[i]==' ')
{
       spaces++;
       i++;
}
else i++;
```

}

printf("\nNumber of Small letters = %d\nNumber of Capital letters =
%d\nNumber of Digit letters = %d\nNumber of Spaces letters =
%d",small,capital,digit,spaces);

```
getch();
}
13. 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
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,count=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
     while(str[i]!='\n')
     {
          if(str[i]==' ')
```

```
{
               count++;
          }
          i++;
     }
     printf("\nNumber of spaces = %d",count);
    getch();
}
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
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,count=0,even=0,odd=0;
```

```
char str[100];
printf("Please enter a String\n");
fgets(str,sizeof(str), stdin);
printf("\nGiven string is \n%s",str);
while(str[i]!='n')
{
      while(str[i]== ' ' && str[i]!='\n')
      {
             i++;
      }
      count=0;
      while(str[i]!=' ' && str[i]!='\n')
      {
             count++;
             i++;
      }
      if(count%2==0) even++;
      else odd++;
}
printf("\nEven length words = %d\nOdd length words= %d",even,odd);
```

```
getch();
}
15. 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
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0,k=0,index=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
     printf("\nLast word is \n");
     while(str[i]!='\n')
     {
```

```
while(str[i]== ' ' && str[i]!='n')
       {
              i++;
       }
       while(str[i]!=' \ \&\&\ str[i]!='\n')
       {
              index=i;
              i++;
       }
}
j=index;
       while(str[j]!=' '\&\&j>=0)
       {
              j--;
       }
       j++;
       for(k=j; k<=index; k++)</pre>
       {
              printf("%c",str[k]);
       }
getch();
```

```
}
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
#include<stdio.h>
#include<conio.h>
void main()
{
     char str[100];
     int i=0,j=0,k=0,count=0;
     int n;
     printf("Please enter a String\n");
     fgets(str,sizeof(str),stdin);
     printf("\nGiven String is \n%s",str);
     printf("\nEnter Position of word to print\n");
     scanf("%d", &n);
```

```
while(str[i]!='\n')
{
              while(str[i]=='' \&\& str[i]!='\n')
              {
                     i++;
              }
              j=i;
              while(str[i]!=' '\&\&str[i]!=' \n')
              {
                     i++;
              }
              count++;
              if(count == n)
              {
                     for(k=j; k<i; k++)
                     {
                            printf("%c", str[k]);
                     }
              }
}
```

```
getch();
}
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
#include<stdio.h>
#include<conio.h>
void main()
{
     char str[100];
     int i=0;
     printf("Please enter a string\n");
     fgets(str,sizeof(str),stdin);
     printf("\nGiven String is\n%s",str);
     while(str[i]!='\n')
     {
           if(str[i] >= 'A' \&\& str[i] <= 'Z')
```

```
{
              str[i]=str[i]+32;
         }
         i++;
     }
    printf("\nRequired string is\n%s", str);
    getch();
}
18. Write a C program which toggles the case of a string.
Eg:
Input String: technOrbit Infosystems
Output String: TECHNORBIT iNFOSYSTEMS
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0;
```

```
char str[100];
printf("Please enter a String\n");
fgets(str,sizeof(str),stdin);
printf("\nGiven string is \n%s",str);
while(str[i]!='n')
{
       if(str[i]>='A' && str[i]<='Z')
       {
              str[i]=str[i]+32;
       }
       else if(str[i] >= 'a' \&\& str[i] <= 'z')
       {
              str[i]=str[i]-32;
       }
       i++;
}
printf("\nRequired string is\n%s",str);
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()
{
     int i=0,j=0,count1=0,count2=0,temp,flag=0;
     char str[100], str1[100];
     printf("Enter given strings\n");
     fgets(str,sizeof(str),stdin);
     fgets(str1,sizeof(str1),stdin);
     printf("\nGiven strings are \n%s & \n%s",str,str1);
     while(str[i]!='\n')
     {
```

```
count1++;
      i++;
}
while(str1[j]!='\n')
{
      count2++;
      j++;
}
if(count1==count2)
{
      i=0;
      j=0;
      while(i<count1)
      {
             j=i+1;
             while(j<count1)
             {
                    if(str[j]<=str[i])</pre>
                    {
                           temp = str[j];
                           str[j] = str[i];
                           str[i] = temp;
```

```
}
             j++;
       }
       i++;
}
i=0;
j=0;
while(i<count1)
{
      j=i+1;
       while(j<count1)
       {
             if(str1[j] \le str1[i])
             {
                    temp = str1[j];
                    str1[j] = str1[i];
                    str1[i] = temp;
             }
             j++;
       }
      i++;
}
i=0;
j=0;
```

```
while(str[i]!='\n')
      {
             if(str[i]==str1[j])
             {
                   i++;
                   j++;
             }
             else
             {
                   flag=1;
                   break;
             }
      }
      if(flag==0)
      {
             printf("\nGiven strings are Anagram");
      }
      else printf("\nGiven strings are not Anagram");
}
else
{
      printf("\nGiven strings are not angram\n");
```

```
}
     getch();
}
20. Write a C program which accept string from user and copy
that string into some another string.
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0;
     char str[100];
     char str1[100];
     printf("Enter a String\n");
     fgets(str,sizeof(str),stdin);
     printf("Given string is \n%s", str);
     while(str[i]!='\n')
     {
```

```
str1[j] = str[i];
                     j++;
                     i++;
     }
     str1[j] = '\0';
     printf("\nRequired string is\n%s", str1);
     getch();
}
21. 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
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0,n,count=0;
     char str[]="India is my country";
```

```
char str1[100];
printf("Given string is \n%s", str);
printf("\nEnter value of N \n");
scanf("%d", &n);
while(str[i]!='\n')
{
             if(count<n)
              {
                    str1[j] = str[i];
                    j++;
              }
              if(n \le j)
              {
                    break;
              }
              i++;
              count++;
}
str1[j] = '\0';
printf("\nRequired string is\n%s", str1);
```

```
getch();
}
22. 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
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0,n,count=0;
     char str[100];
     char str1[100];
     printf("Enter a string\n");
     fgets(str,sizeof(str),stdin);
     printf("Given string is \n%s", str);
     printf("\nEnter value of N \n");
     scanf("%d", &n);
```

```
while(str[i]!='\n')
{
      count++;
      i++;
}
i=count-n;
      if(i>=0)
      {
             while(i<=count)
             {
                    str1[j]=str[i];
                    i++;
                    j++;
              }
             str1[j] = '\0';
str1[j]='\0';
printf("\nRequired string is\n%s", str1);
      }
```

```
else printf("\nPlease enter valid input N\n");
```

```
getch();
}
23. 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
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0;
     char str[100], str1[100];
     printf("Please enter given String\n");
     fgets(str,sizeof(str),stdin);
     fgets(str1,sizeof(str1),stdin);
```

```
printf("\nGiven strings are \n%s && \n%s",str,str1);
     while(str[i]!='\n')
     {
          i++;
     }
     i--;
     while(str1[j]!='\n')
     {
          str[i]=str1[j];
          i++;
          j++;
     }
     str[i]='\0';
     printf("\nRequired string is \n%s",str);
     getch();
}
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
#include<stdio.h>
#include<conio.h>
void main()
{
      int i=0,j=0,n;
      char str[100], str1[100];
      printf("Please enter given String\n");
      fgets(str,sizeof(str),stdin);
      fgets(str1,sizeof(str1),stdin);
      printf("\nGiven strings are \n%s && \n%s",str,str1);
      printf("\nPlease enter value of N\n");
      scanf("%d",&n);
      while(str[i]!='\n')
      {
             i++;
      }
```

```
while(str1[j]!='\n')
     {
          if(j<n)
                str[i]=str1[j];
                i++;
           }
           j++;
     }
     str[i]='\0';
     printf("\nRequired string is \n%s",str);
     getch();
}
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.
#include<stdio.h>
```

```
#include<conio.h>
void main()
{
      int i=0,j=0,count1=0,count2=0;
      char str[100], str1[100];
      printf("Please enter given String\n");
      fgets(str,sizeof(str),stdin);
      fgets(str1,sizeof(str1),stdin);
      printf("\nGiven strings are \n%s && \n%s",str,str1);
      while(str[i]!='n')
      {
             count1++;
             i++;
      }
      while(str1[j]!='\n')
      {
             count2++;
             j++;
      }
      i=0;
      j=0;
```

```
while(str[i]!=0)
     {
         if(str[i]==str1[j])
              i++;
              j++;
         }
         else
              printf("\nStrings are not equal\nFirst Mismach Charactrs are
%c and %c\n",str[i],str1[j]);
              break;
         }
     }
    if(count1==i-1 && count2 == j-1)
    {
         printf("\nTwo Strings are equal");
     }
    getch();
}
```

26.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.
#include<stdio.h>
#include<conio.h>
void main()
{
      int i=0,j=0,count1=0,count2=0,n;
      char str[100], str1[100];
      printf("Please enter given String\n");
      fgets(str,sizeof(str),stdin);
      fgets(str1,sizeof(str1),stdin);
      printf("\nGiven strings are \n%s && \n%s",str,str1);
      printf("\nEnter Value of N\n");
      scanf("%d", &n);
```

```
while(str[i]!='\n')
      {
             count1++;
             i++;
      }
      while(str1[j]!='\n')
      {
             count2++;
             j++;
      }
      i=0;
      j=0;
      while(str[i]!=0)
      {
             if(i < n){
             if(str[i]==str1[j])
             {
                    i++;
                   j++;
             }
             else
             {
                    printf("\nStrings are not equal\nFirst Mismach Charactrs are
%c and %c\n",str[i],str1[j]);
```

```
break;
          }
          }
          else break;
     }
     if(n==i)
     {
          printf("\nFirst %d characters of both strings are equal",n);
     }
     getch();
}
27. 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.
#include<stdio.h>
```

```
#include<conio.h>
void main()
{
      int i=0,j=0,count1=0,count2=0;
      char str[100], str1[100];
      printf("Please enter given String\n");
      fgets(str,sizeof(str),stdin);
      fgets(str1,sizeof(str1),stdin);
      printf("\nGiven strings are \n%s && \n%s",str,str1);
      while(str[i]!='n')
      {
             count1++;
             i++;
      }
      while(str1[j]!='\n')
      {
             count2++;
             j++;
      }
      i=0;
      j=0;
```

```
while(str[i]!=0)
     {
          if(str[i]==str1[j] || str[i]-32 == str1[j]||
str[i]+32==str1[j] | |str[i]==str1[j]+32 | |str[i]==str1[j]-32 |
          {
                i++;
                j++;
          }
          else
                printf("\nStrings are not equal\nFirst Mismach Charactrs are
%c and %c\n",str[i],str1[j]);
                break;
          }
     }
     if(count1==i-1 && count2 == j-1)
     {
          printf("\nTwo Strings are equal");
     }
     getch();
}
```

```
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 aidnly country
#include<stdio.h>
#include<conio.h>
void main()
{
      int i=0,j=0,count=0,m=0,n=0,index,temp,flag=0;
      char str[100];
      printf("Please enter a String\n");
      fgets(str,sizeof(str),stdin);
      printf("\nGiven string is \n%s",str);
      printf("\nEnter value of N\n");
      scanf("%d",&n);
      while(str[i]==' ')
      {
```

```
i++;
}
m=i;
i=0;
while(str[i]!='\n')
{
      while(str[i]==' ' && str[i] != '\n')
      {
             i++;
      }
      while(str[i]!=' '\&\&str[i]!=' \n')
      {
             count++;
             i++;
             if(count>=n)
             {
                    n=count;
                    flag=1;
                    j=i;
                    break;
             }
```

```
}
      if(count>=n) break;
}
if(flag==1)
{
while(m<=j)
{
      while(str[m]==' '&& (m<=j))
      {
             m++;
      while(str[j] == ' '&& (m<=j))
      {
            j--;
      while(m<=j)
      {
             temp = str[m];
             str[m] = str[j];
             str[j] = temp;
             m++;
            j--;
      }
```

```
}
     }
     printf("\nRequired String is \n%s",str);
     getch();
}
29. 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
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,count=0,m,n,index,temp;
     char str[100];
```

```
printf("Please enter a String\n");
fgets(str,sizeof(str),stdin);
printf("\nGiven string is \n%s",str);
printf("\nEnter value ofM & N\n");
scanf("%d",&m);
scanf("%d",&n);
while(str[i]!='\n')
{
      while(str[i]==' ' && str[i] != '\n')
      {
             i++;
      }
      while(str[i]!=' '&&str[i]!='\n')
      {
             count++;
             i++;
             if(count==m)
             {
                    m = i-1;
             }
```

```
if(count>=n)
            {
                  n=count;
                  break;
            }
      }
      if(count>=n) break;
}
while(m<=n)
{
      while(str[m]==' '&& (m<=n))
      {
            m++;
      while(str[n] == ' '&& (m<=n))
      {
            n--;
      while(m<=n)
      {
            temp = str[m];
            str[m] = str[n];
```

```
str[n] = temp;
                m++;
                n--;
          }
     }
     printf("\nRequired String is \n%s",str);
     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
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,j=0,count=0,count1=0,index=0;
     char str[100];
     printf("Please enter a String\n");
```

```
fgets(str,sizeof(str),stdin);
printf("\nGiven string is \n%s",str);
//to reverse words in sentence
while(str[i]!='\n')
{
      while(str[i]==' '&&str[i]!='n')
      {
             i++;
      }
      index=i;
       count=0;
      while(str[i]!='' \&\& str[i]!='\n')
      {
             count++;
             i++;
       }
      if(count%2==0)
      {
             j=i-1;
             while(str[j]!=' '| |j==0)
             {
                    printf("%c",str[j]);
                    j--;
```

```
}
}
else
{
       j=index;
       while(str[j]!=' \ ' \ \&\& \ str[j]!=' \ 'n')
       {
              printf("%c", str[j]);
              j++;
       }
}
if(str[i]==' ')
{
       count1=0;
       j=i;
       while(str[j]!='\n')
       {
              if(str[j]!=' ')
              {
                      count1=1;
                      break;
              }
              j++;
       }
```

```
}
         if(count1==1)
          {
               printf(" ");
         }
    }
    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.
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=0,j=0,flag=0;
     char str[100];
```

```
printf("Enter a String\n");
fgets(str,sizeof(str),stdin);
printf("Given String is\n%s\n",str);
//to check Palindrome string
while(str[i]!='n')
{
      i++;
}
i--;
while(i>=j)
{
      if(str[j]==str[i])
      {
             i--;
             j++;
      }
      else
      {
              flag=1;
              break;
       }
}
if(flag==0)
```

```
{
          printf("Given String is Palindrome");
     }
     else printf("Given String is not Palindrome");
     getch();
}
32. Write a C program to count number of alphabates, spaces
and words in given string.
#include<stdio.h>
#include<conio.h>
void main()
{
     int i=0,count1=0,count=0,alphabates=0,spaces=0,digits=0;
     char str[100];
     printf("Please enter a String\n");
     fgets(str,sizeof(str), stdin);
     printf("\nGiven string is \n%s",str);
     while(str[i]!='\n')
```

```
{
       while(str[i]==' ' && str[i]!='n')
       {
              spaces++;
              i++;
       }
       count=0;
       while(str[i]!=' \ '\&\& \ str[i]!=' \ 'n')
       {
              if(str[i] \ge A' \&\& str[i] \le z')
              {
                     alphabates++;
              }
              else if(str[i]<='9' && str[i]>='0')
              {
                     digits++;
              }
              count++;
              i++;
       }
       if(count>0)
       {
              count1++;
       }
```

```
printf("\nNumber of Words = %d\nNumber of Spaces = %d\nNumber of
Alphabates = %d\nNumber of Digits = %d",count1,spaces,alphabates,digits);

getch();
}
```