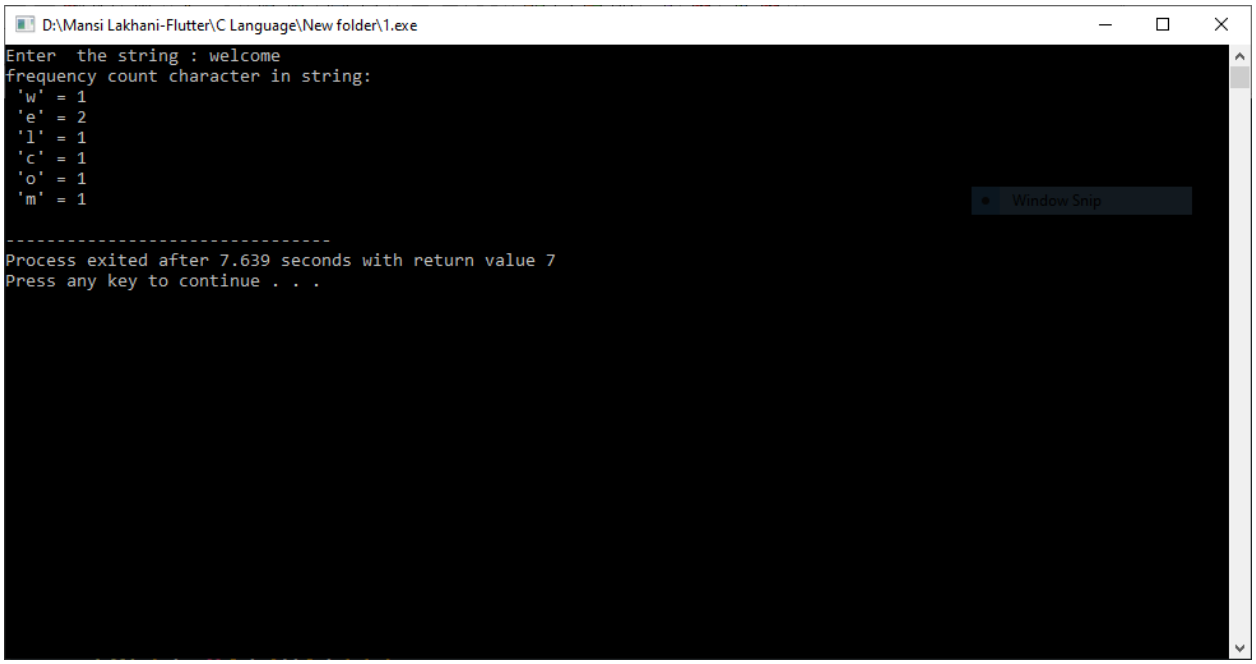
Practical-1

Aim:-Write a C program to count the frequency of each character in a string.

Program:

```
#include <stdio.h>

int main()
{
   char a[1000];
   int  i,j,k,count=0,n;
   printf("Enter  the string : ");
   gets(a);

   for(j=0;i<a[j];j++);
         n=j;
   printf("frequency count character in string:\n");
  for(i=0;i<n;i++)
   {
         count=1;
         if(a[i])
         {
                  for(j=i+1;j<n;j++)
              {
                  if(a[i]==a[j])
                    {
                       count++;
                       a[j]='\0';
                     }
              }
              printf(" '%c' = %d \n",a[i],count);
                   }
         }
}
```

Output:


D:\Mansi Lakhani-Flutter\C Language\New folder\1.exe
Enter the string : welcome
frequency count character in string:
 'w' = 1
 'e' = 2
 'l' = 1
 'c' = 1
 'o' = 1
 'm' = 1
Window Snip

Process exited after 7.639 seconds with return value 7
Press any key to continue . . .

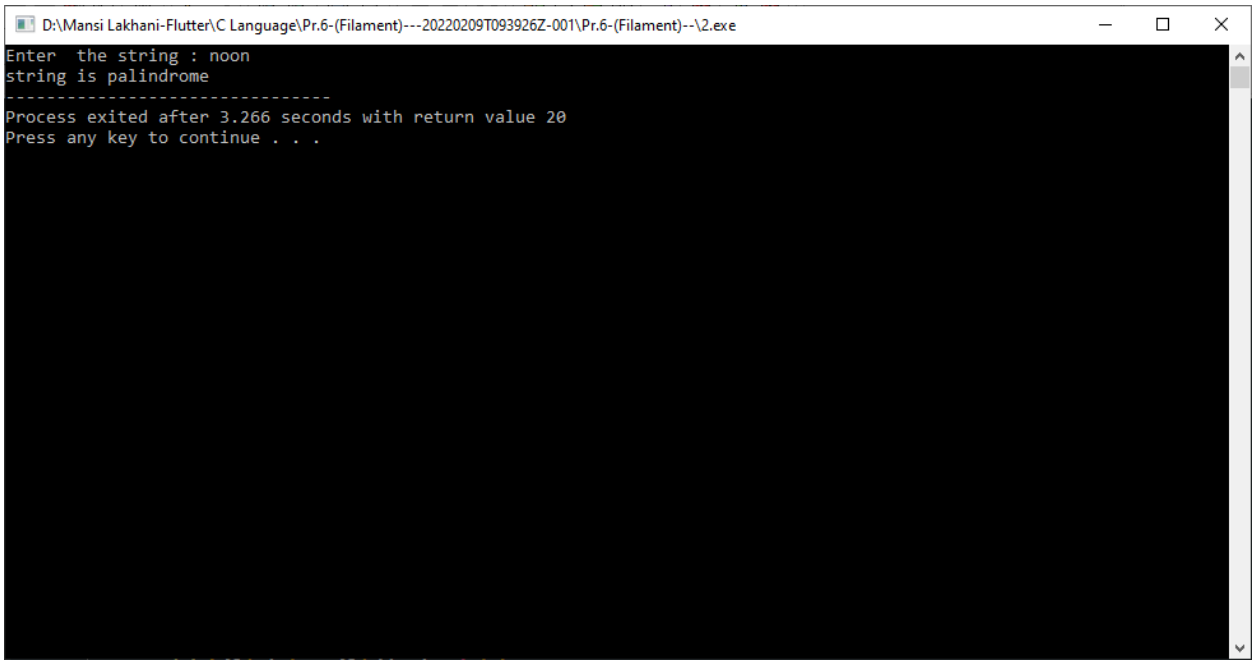
Practical-2

Aim:-Write a C program to check whether a string is a palindrome or not.

Program:

```
#include <stdio.h>

main()
{
   char a[1000];
   int i,n,c=0;

   printf("Enter  the string : ");
   gets(a);
   n=strlen(a);

   for(i=0;i<n/2;i++)
   {
         if(a[i]==a[n-i-1])
         c++;

         }
         if(c==i)
         {
           printf("string is palindrome");
         }

   else
   {
    printf("string is not palindrome");
         }
}
```

Output:


D:\Mansi Lakhani-Flutter\C Language\Pr.6-(Filament)---20220209T093926Z-001\Pr.6-(Filament)--\2.exe
Enter the string : noon
string is palindrome

Process exited after 3.266 seconds with return value 20
Press any key to continue . . .

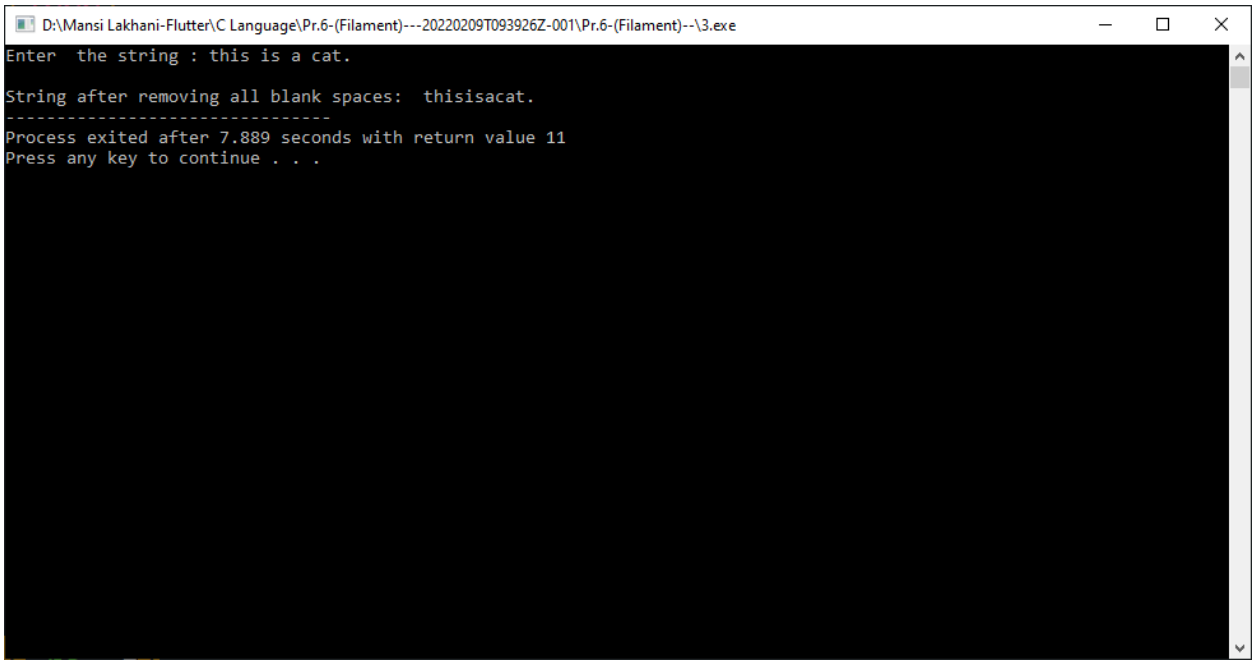
Practical-3

Aim:-Write a C program to remove spaces, blanks from a string.

Program:

```
#include <string.h>

main()
{
   char a[1000];
   int  i,k=0;
   printf("Enter  the string : ");
   gets(a);

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

                  if(a[i]==' '|| a[i]=='\t')
         {
                   k++;
                   i--;
            }
   }
   printf("\nString after removing all blank spaces:  ");
         printf("%s",a);
}
```

Output:


D:\Mansi Lakhani-Flutter\C Language\Pr.6-(Filament)---20220209T093926Z-001\Pr.6-(Filament)--\3.exe
Enter the string : this is a cat.
String after removing all blank spaces: thisisacat.
Process exited after 7.889 seconds with return value 11
Press any key to continue . . .

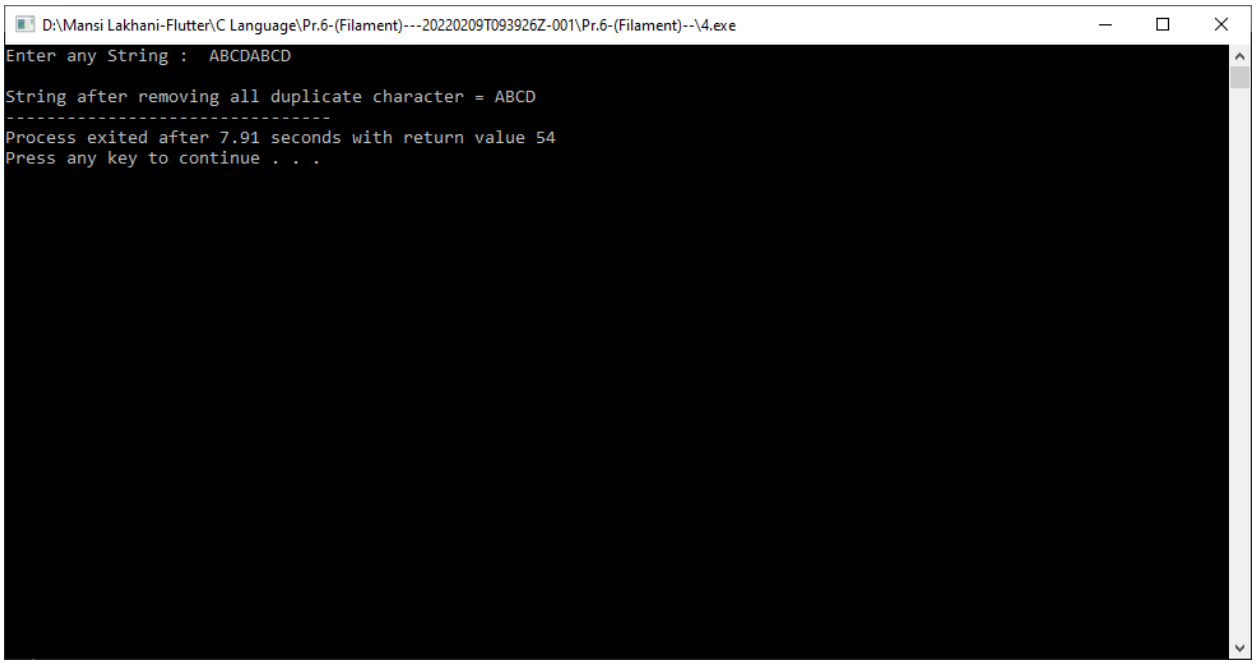
Practical-4

Aim:-Write a C program to remove all repeated characters in a string.

Program:

```
#include <stdio.h>

main()
{
        char a[100];
        int i, j, k;

        printf("Enter any String :  ");
        gets(a);

        for(i = 0; i < strlen(a); i++)
        {
                for(j = i + 1; a[j] != '\0'; j++)
                {
                        if(a[j] == a[i])
                        {
                                for(k = j; a[k] != '\0'; k++)
                                {
                                        a[k] = a[k + 1];
                                }
                        }
                }
        }
        printf("\nString after removing all duplicate character = %s ", a);

}
```

Output:


D:\Mansi Lakhani-Flutter\C Language\Pr.6-(Filament)---20220209T093926Z-001\Pr.6-(Filament)--\4.exe
Enter any String : ABCDABCD
String after removing all duplicate character = ABCD

Process exited after 7.91 seconds with return value 54
Press any key to continue . . .