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KUPONDOLE, LATITPUR
(AFFILATED TO TRIBHUVAN UNIVERSITY)

LAB REPORT
LAB NO.: 7
SUBJECT: C PROGRAMMING

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1. Source Code.

* WAP to copy one string to another string without using string handling function.

```
# include <stdio.h>
# include <conio.h>
void main()
    {
      char st1[20], st2[20];
      int i;
      printf ("Enter the string.");
      gets (st1);
      for (i=0; st1[i] != '\0'; i++)
       {
         st2[i] = st1[i];
       }
       st2[i] = '\0';
     printf("The copied string is :\n");
     printf puts (st2);
     getch ();
   }
```

Output
Enter the string : Aayushi The copied string is : Aayushi

2.

WAP to concatenate two string using user defined function concatenate() without string handling functions.

```
#include <stdio.h>
#include <conio.h>
void concentanate (char[], char[],int);
void main().
    {
     char a[20], b[20];
     int i, len =0;
     printf ("Enter the elements in first string.");
     scanf(" %s", &a);
     printf (" Enter the elements in second string.");
     scanf (" %s" , &b);
     for (i=0 , a[i]!='\0' ; i++)
      {
       len ++;
      }
     concatenate (a,b, len);
     printf ("The concatenated string is: \n");
     printf ("%s",a);
     getch ( );
    }
void concatenate (char a[20], char b[20], int len).
{
 int i;
  for (i=0 ; b[i]!='\0' ; i++)
   {
    a[len ++] = b[i];
   }
  a[len +1] = '\0' ;
}
```

Output

```
Enter the element in first string
    Ram.
Enter the element in second string
    Thapa.
The concatenated string is:
    Ram Thapa.
```

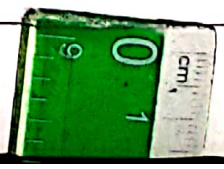
3.

WAP to read a sentence & count the no. of character & words in that sentence.

```
#include <stdio.h>
#include <conio.h>
void main()
{
  char txt[100];
  int  l=0, i, c=0, w=0;
  printf("Enter a sentence");
  gets(txt);
  for(i=0; txt[i]!='\0'; i++)
  {
    l++;
    c++;
  }
  txt[l]=' ';
  txt[l+1]='\0';
  for(i=0; txt[i]!='\0'; i++)
  {
    if(txt[i]==' ')
    {
      w++;
    }
  }
  printf("The no. of character are: \t");
  printf("%d \n", c);
  printf("The no. of words are: \t");
  printf("%d", w);
  getch();
}
```

Output

```
Enter a sentene my friends
The no. of character are: 10
The no. of words ar: 2
```



4)

WAP to read a list of word, arrange them in dictionary order & print the ordered list using function Read(), Arrange() & Display() respectively.

```
#include <stdio.h>
#include <conio.h>
void Read (int, char[][20]);
void Arrange (int, char[][20]);
void Display (int, char[][20]);
void main()
 {
   char word[20][20];
   int n;
   printf("Enter the no. of words:");
   scanf("%d", &n);
   printf("Enter the word.");
   Read (n, word);
   Arrange (n, word);
   Printf ("The word in dictionary order are:\n");
   Display (n, word);
   getch();
 }
void Read (int n, char word[][20])
{
  int i;
  fflush (stdio);
  for (i=0; i<n; i++)
  {
    get (word[i]);
  }

 }
```

```
void Arrange (int n, char word [][20]).
{
  char temp[20];
  int i,j;
  for (i=0; i<n-1; i++).
   {
     for (j=0; j<n-i-1 ; j++);
     {
       if (stricomp (word[j], word[j+1])>0).
        {
          strcpy (temp , word [j]);
          strcpy [word [j+1], word [j+1]);
          strcpy (word [j+1] , temp);
        }
     }
   }
}
void Display (int n, char word [][20])
{
   int i;
   for (i=0 ; i<n ; i++)
    {
      puts (word [i]);
    }
}
```

Output

```
Enter the no. of words : 3
Enter the words : Google Hi Computer.

The words in dictionary order are:
Computer.
Google
Hi.
```

5.

WAP to read a sentence & reprint the same sentence by replacing all the occurrence of the substring "the" by "***".

```
#include <stdio.h>
#include <conio.h>
void main()
{
  char txt[20];
   int i;
   printf("Enter the sentence");
   gets(txt);
    for(i=0; txt[i]!='\0'; i++)
     {
      if(txt[i]=='t' && txt[i+1]=='h' && txt[i+2]=='e')
      {
       txt[i] = txt[i+1] = [i+2] = 'x';
      }
     }
  printf("The sentence after replacing is:\n");
   puts(txt);
   getch();
}
```

Output

```
Enter the sentence
        Hello from the other side
The sentence after replacing is.
        hello from xxx o xxx, side.
```

Discussion & Conclusion.

With the theoretical knowledge of string. We were able to perform various programs with the helps of various string handling function. We were able to pass words to a program. & can mainpulate the given word & even found out the no. of characters. Similarly in this lab we were also able to ask some random word & sort them dictionary order. Thus we were able to use various string handling function.