

Department of Computer Science and Engineering

**Course Code :** CSE- 110

**Course Title :** Structured Programming Language Lab.

**Report :** 03.

**Experiment Name** : A program to separate string, counts vowels, constants, other symbols

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**REMARKS**

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**SEM. :** **2nd**

**Introduction:** The string in C programming language is actually a one-dimensional array of characters which is terminated by a null character '\0'. Thus a null-terminated string contains the characters that comprise the string followed by a null.

**Objective:**  A program to separate string into two strings.

**Source Code:**

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

main()

{

char a\_str[50];

char b\_str[50]={""};

char c\_str[50]={""};

int len,i;

int j=0,k=0;

printf("enter the sentence:");

gets(a\_str);

len=strlen(a\_str);

for(i=0;i<len;i++)

{

if(i% 2 == 1)

{

b\_str[j]=a\_str[i];

if(i !=(len-1))

j++;

}

else

{

c\_str[k]=a\_str[i];

if(i !=(len-1))

k++;

}

}

printf("\nmain string is:%s with len:%d\n",a\_str,len);

printf("odd string is:%s with len:%d\n",b\_str,strlen(b\_str));

printf("even string is:%s with len:%d\n",c\_str,strlen(c\_str));

}

**Input:**

enter the sentence: this is my programme

**Output:**

main string is:this is my programme with len:20

odd string is:hsi yporme with len:10

even string is:ti sm rgam with len:10

Process returned 38 (0x26) execution time : 15.252 s

Press any key to continue.

**Source Code:**

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

main()

{

char line [150];

int i ,v,c,ch,d,s,o;

o=v=c=ch=d=s=0;

printf ("Enter a line of string:\n" );

gets (line);

for(i=0;line[i]!='\0';++i)

{

if(line[i]=='a' || line [i]=='e' || line [i]=='i' || line [i]=='o' || line [i]=='u' || line [i]=='A' || line [i]=='E' || line [i]=='I' || line [i]=='O' || line [i]=='U')

++v;

else if((line[i]>='a'&& line [i]<='z') || (line[i]>='A'&& line [i]<='Z'))

++c;

else if(line[i]>='0'&&c<='9') ++d;

else if (line[i]==' ')

++s;

}

printf ("Vowels: %d",v);

printf ("\nConsonants: %d",c);

printf ("\nDigits: %d",d);

printf ("\nWhite spaces: %d",s);

return 0;

}

**Input:**

Enter a line of string:

419 is my roll number

**Output:**

Vowels: 4

Consonants: 10

Digits: 3

White spaces: 4

Process returned 0 (0x0) execution time : 22.718 s

Press any key to continue.

**Discussion:** In this program we have taken the recursive function. There was no problem compiling this program.