STRING HANDLING IN C

String means collection of more than one character.string is used to store the more than one character alphabetical data.

e.g. if we want to give the name,address,type data in application for that we need to use the string.

How to declare the string or how to create the string programme.

Syntax:- char variable name[size];

e.g. char name[5];//this declaration says name can store the 5 character data in it.

Memoy representation of string.

0		1	2	3	4
G		I	R	I	\0

100   101   102   103   104

\0 Indicate to us end of string. The character insert automatically by compiler

How to input the string from scanf()for that use the %s format specifier
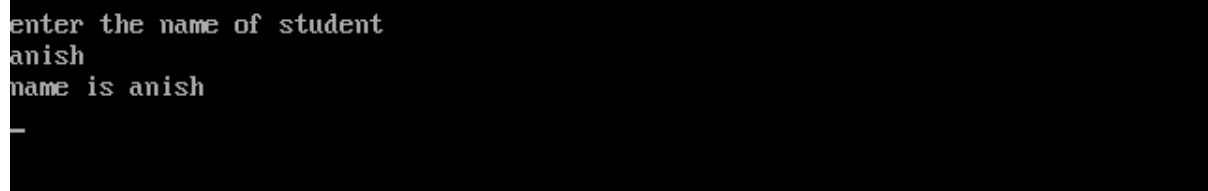
Scanf("%s",string);

e.g. scanf("%s",name);

//following programme shows accesing with scanf () function.

#include<stdio.h>

#include<conio.h>

```
void main(){

char name [80];

clrscr();

printf("enter the name of student \n");

scanf("%s",name);

printf("name is %s\n",name);

getch();

}
```

Output:

```
enter the name of student
anish
name is anish
_
```

Following program generate the output:

Enter the name of student

Ganesh giri

This programme can not display the giri work after the ganesh because of scanf () has not ability to read the string after the space.for that c provide the two function to us only for reading and displaying string is called as gets() and puts().

//Demonstrating the string array

```
#include<stdio.h>

#include<conio.h>

main()  {   int i;   char name[5][10];   clrscr();

for(i=0;i<5;i++)    {    printf("\nEnter the string : ");    scanf("%s",name[i]);    }
```

printf("\nThe strings are \n");

for(i=0;i<5;i++)   {   printf("\n%s",name[i]);   } getch(); return 0; }

output:-

```
Enter the string :
bharati

Enter the string :
sapana

Enter the string :
pratiksha

Enter the string :
jayshri

Enter the string :
ayodhya

The strings are

bharati
sapana
pratiksha
jayshri
ayodhya_
```

//How to use the gets() and puts() function.

#include<stdio.h>

#include<conio.h>

void main(){

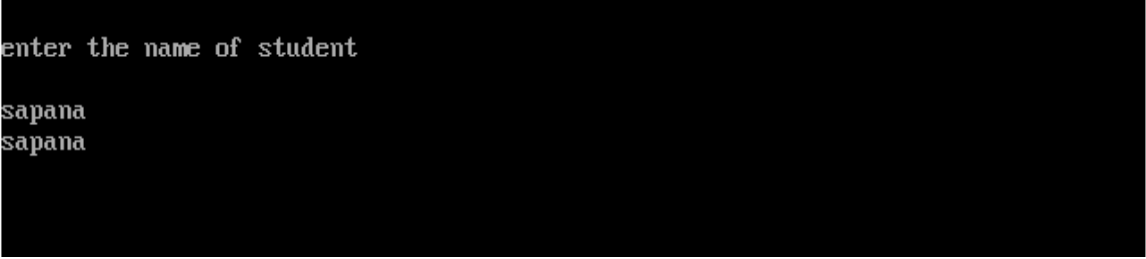char name[90];

clrscr();

puts("enter the name of student ");

gets(name);

puts (name);

getch();

}

```
enter the name of student

sapana
sapana
```

This programme print the name with space because gets() has capability to print the string with name.

STRING HANDLING FUNCTION.

String handling function are used to perform the operation on string.

Following are the string handling function.

Strcpy():- the function is used to copy the one string to the another string.

strcmp(): the function is used to perform the comparison between two string.

Strlen(): this function is used to find the length of string.

Strcat():this function is used to combine the two string.

Strupr(): this function is used to convert the lower case string to the upper case string.

Strlwr():this function is used to convert the uppercase string in to the lower case .

Strrev():-this function is used to reverse the string

Note: all function examples and its inbuilt logics we will teach in classroom.