

String Examples

1. Write a C program accept any string find out given string is palindrome or not palindrome string

```
void main()
{
    char a[20],b[20];
    int l,j,i;
    clrscr();
    printf("\n Enter any string ");
    scanf("%s",a);
    printf("\n %s",a);
    l=strlen(a);
    j=0;
    for(i=l-1;i>=0;i--)
    {
        b[j]=a[i];
        j++;
    }
    b[j]='\0';
    i=strcmp(a,b);
    if(i==0)
        printf("\n String is Palindrom ");
    else
        printf("\n String is Not palindrom ");
    getch();
}
```

2. strcat() function

The strcat() is used to concatenate two strings. The second string will be appended to the end of the first string. This process is called concatenation.

Syntax

strcat (StringVariable1, StringVariable 2);

Example:

```
#include<stdio.h>
#include<conio.h>
void main()
{
    char str1[20],str2[20];
    clrscr();
    printf(,Enter First String:');
    scanf(,%s',str1);
    printf(,Enter Second String:');
    scanf(,%s',str2);
    printf(, Concatenation String is:%s', strcat(str1,str2));
    getch();
}
```

Output:

Enter First String

Good

Enter Second String

Morning

Concatenation String is: GoodMorning

3. Write a C Program Implement this logic

Bit pattern	1	1	1	1	1		
Enter Element	0						
At Position	2						
How many time		2					
Output	1	1	0	0	1	1	1

```
void main()
{
    char str[50],c;
    char s[50]=" ";
    int l,pos,j,i,t;
    clrscr();
    printf("\n Enter any String ");
    scanf("%s",str);
    l=strlen(str);
    printf("\n Enter element to be inserted ");
    scanf(" %c",&c);
    printf("\n Enter at position ");
    scanf("%d",&pos);
    printf("\n How many Times ");
    scanf("%d",&t);
    if(l>=pos)
    {
        j=0;
```



```
for(i=0;i<pos;i++)
{
    s[j]=str[i];
    j=j+1;
}
for(i=0;i<t;i++)
{
    s[j]=c;
    j++;
}
for(i=pos;i<l;i++)
{
    s[j]=str[i];
    j++;
}
s[j]='\0';
}
else
    printf("\n Sorry ! ");
printf("\n %s",s);
getch();
}
```



4. Write a C program accept any string display number of character occur

welcome

c 1

e 2

l 1

m 1

o 1

w 1

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    char str[50];
```

```
    char b;
```

```
    int len,i,k;
```

```
    clrscr();
```

```
    printf("\n ENTER ANY STRING ");
```

```
    gets(str);
```

```
    for(b='a';b<='z';b++)
```

```
    {
```

```
        k=0;
```

```
        for(i=0;i<str[i]!='\0';i++)
```

```
        {
```

```
        if(b==str[i])
            k++;
    }
    if(k>0)
        printf("\n %c %d",b,k);
    }
    getch();
}
```

5. Write a 'C' program which uses gets and puts to double space type input (if input is **abcde** then output will be **a b c d e**)

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char a[20],b[20];
    int l,i,j;
    clrscr();
    printf("\n Enter any string ");
    gets(a);
    l=strlen(a);
```



```
j=0;
for(i=0;i<1;i++)
{
    b[j]=a[i];
    j++;
    b[j]=' ';
    j++;
}
b[j]='\0';
puts(b);
getch();
}
```

