

# **SAINI TECHNOLOGIES**



## **ADVANCED C PROGRAMMING WITH SAINI TECHNOLOGIES**

**Sushil Kumar Saini**

**Email: [Sushilsaini04@gmail.com](mailto:Sushilsaini04@gmail.com)**

**Mo. 9896470047**

## Simple string printing

---

```
void main()
{
char name[]="sushil";
clrscr();
printf("%s",name);
getch();
}
```

---

## Strings from characters

---

```
void main()
{
char name[]={'s','u','s','h','i','l','\0'};
clrscr();
printf("%s",name);
getch();
}
```

---

## Print All characters from the strings

---

```
void main()
{
char name[]={'s','u','s','h','i','l','\0'};
int i;
clrscr();
i=0;
while(name[i]!='\0')
{
printf("\n %c",name[i]);
i++;
}

getch();
}
```

---

## Input string at runtime and prints all characters from strings

```
void main()
{
char name[100];
int i;
clrscr();
printf("enter the Name ");
scanf("%s",&name);
i=0;
```

```
while(name[i]!='\0')
{
printf("\n %c",name[i]);
i++;
}
getch();
}
```

---

## Input string with spaces

---

```
void main()
{
char name[100];
int i;
clrscr();
printf("enter the Name ");
gets(name);
i=0;
while(name[i]!='\0')
{
printf("\n %c",name[i]);
i++;
}
printf("\n The Length is %d",i);

getch();
}
```

---

## Convert the string into Upper Case

---

```
void main()
{
char name[100];
char name1[100];
int i;
clrscr();
printf("enter the Name ");
gets(name);
i=0;
while(name[i]!='\0')
{
if(name[i]>=97 &&name[i]<=122)
name1[i]= name[i]-32;
else
name1[i]=name[i];
i++;
}
```

```
}
name1[i]='\0';
printf("the Upper Case is %s",name1);
getch();
}
```

---

### Compare two strings

---

```
void main()
{
char name[100];
char name1[100];
int i,len1,len2,f=0;

clrscr();
printf("enter the Name ");
gets(name);
printf("enter the Name1 ");
gets(name1);
i=0;

while(name[i]!='\0')
{
i++;
}
len1= i;
i=0;
while(name1[i]!='\0')
{
i++;
}
len2=i;
if(len1==len2)
{
i=0;
while(name[i]!='\0')
{
if(name[i]!=name1[i])
{
f=1;
break;
}
}
i++;
}
if(f==1)
printf("Not Same");
else
printf("Same");
```

```
}  
else  
printf("Not Same");  
getch();  
}
```

---

### Find string whether it is palindrome or not

---

```
void main()  
{  
char name[100];  
int i,n,l,f=0;  
clrscr();  
printf("Enter the word");  
gets(name);  
n=0;  
while(name[n]!='\0')  
{  
n++;  
}  
l=n;  
l--;  
i=0;  
while(i<n)  
{  
if(name[i]!=name[l-i])  
{  
f=1;  
break;  
}  
i++;  
}  
if(f==0)  
printf("\n String is palindrom");  
else  
printf("\n String is not palindrom");  
getch();  
}
```

---

### Find the vowel in a given string

```
void main()  
{  
char name[100];  
int i,f=0;  
clrscr();  
printf("Enter the name");  
gets(name);
```

```

i=0;
while(name[i]!='\0')
{
if(name[i]==97||name[i]==101||name[i]==105||name[i]==111||name[i]==117)
{
printf("\n The vowel in string is %c",name[i]);
}
i++;
}
getch();
}

```

---

## Convert a string into a Title Case

```

void main()
{
char name[100];
char name1[100];
int i;
clrscr();
printf("Enter the string");
gets(name);
i=0;
while(name[i]!='\0')
{
if(i==0 && name[i] >=97 && name[i]<=122)
{
name1[i]=name[i]-32;
}
else
if(name[i]==' ' && name[i+1] >=97 && name[i+1]<=122)
{
name1[i+1]=name[i+1]-32;
name1[i]=name[i];
i++;
}
else
name1[i]=name[i];
i++;
}
name1[i]='\0';
printf("The title is %s",name1);
getch();
}

```

---

## Find a string into a string

```

void main()
{
char name[100];
char name1[100];

```

```

int i,j,f=0,p;
clrscr();
printf("Enter the string");
gets(name);
printf("\n Enter the word to search");
scanf("%s",name1);
j=0;
i=0;
while(name[i]!='\0')
{
    if(name1[j]==name[i])
    {
        if(p==0)
        {
            p=i;
        }
        if(name1[j+1]!='\0')
        {
            f=1;
            break;
        }
        j++;
    }
    else
    if(name1[j]!=name[i])
    {
        j=0;
        p=0;
    }
    i++;
}
if(f==1)
printf("Found on position %d",p);
else
printf("Not found");
getch();
}

```

---

## Find and Replace a string from a String

```

void main()
{
char name[100];
char name1[100];
char name2[100];
int i,j,f=0,p=-1,tmp,len1,len2,a,b,d,stln,k;
clrscr();

```

```

printf("Enter the string");
gets(name);
printf("\n Enter the word to replace");
scanf("%s",name1);
a=0;
while(name1[a]!='\0')
{
a++;
}
len1=a;
j=0;
i=0;
while(name[i]!='\0')
{
    if(name1[j]==name[i])
    {
        if(p==-1)
        {
            p=i;
        }
        if(name1[j+1]=='\0')
        {
            f=1;
            break;
        }
        j++;
    }
    else
    if(name1[j]!=name[i])
    {
        j=0;
        p=-1;
    }
}
i++;
}

printf("\n Enter the new word");
scanf("%s",&name2);
b=0;
while(name2[b]!='\0')
{
b++;
}
len2=b;

a=0;
while(name[a]!='\0')
{
a++;
}

```



```

stln=a;

if(len1 >len2)
{
d= len1-len2;
for(i=0;i<d;i++)
{
for(a=p; a<stln;a++)
{
name[a]=name[a+1];
}
}
stln=stln-d;
printf("\n the position is %d",p);
k=0;
for(i=p;i<(p+len2);i++)
{
name[i]=name2[k];
k++;
}
printf("\n The new string is %s",name);
}
else
if(len1 <len2)
{
d= len2-len1;
for(i=0;i<d;i++)
{
for(a=stln; a>=p;a--)
{
name[a+1]=name[a];
}
}
stln=stln+d;
k=0;
for(i=p;i<(p+len2);i++)
{
name[i]=name2[k];
k++;
}

printf("\n The new string is %s",name);
}
else
{
if(len1==len2)
{
for(i=0;i<len1;i++)
k=0;
for(i=p;i<(p+len1);i++)
{

```

```
name[i]=name2[k];  
k++;  
}  
  
printf("\n The new string is %s",name);  
}  
}  
getch();  
}
```

---

