

Course Name: O Level (2nd Sem B2 and B3 Batch)
Topic: User Defined Function of String

Subject: C Language
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Example 1: Write a user define function to find the length of string.

```
#include<stdio.h>
#include<conio.h>
int xstrlen(char *);
void main()
{
char ch[25];
int i;
clrscr();
printf("\nEnter any string : ");
gets(ch);
i=xstrlen(&ch);
printf("\nLength of String is %d",i);
getch();
}
int xstrlen(char *p)
{
int c;
for(c=0;*p!='\0';p++)
c++;
return(c);
}
```

Pass the base address of the string

Receive the base address of the string

Output:

```
Enter any string : Today is Friday
Length of String is 15
```

Example 2: Write a user define function to convert any string in lower case letter.

```
#include<stdio.h>
#include<conio.h>
void xstrlwr(char *);
main()
{
char ch[25];
int i;
clrscr();
printf("\nEnter any string : ");
gets(ch);
xstrlwr(&ch);
printf("\nUpdated String is : %s",ch);
getch();
}
void xstrlwr(char *p)
{
for(;*p!='\0';p++)
```

```

if(*p>=65 && *p<=90)
*p=*p+32;
}

```

Output:

```

Enter any string : TODAY IS FRIDAY
Updated String is : today is friday_

```

Example 3: Write a user define to copy one string to another string.

```

#include<stdio.h>
#include<conio.h>
void xstrcpy(char *, char*);
main()
{
char ch[25],ch1[25];
clrscr();
printf("\nEnter any string : ");
gets(ch);
xstrcpy(&ch, &ch1);
printf("\nOriginal String is : %s",ch1);
printf("\nCopy String is : %s",ch1);
getch();
}
void xstrcpy(char *p, char *p1)
{
for(;*p!='\0';p++)
*p1++=*p;
*p1='\0';
}

```

Output:

```

Enter any string : Good Evening
Original String is : Good Evening
Copy String is : Good Evening_

```

Example 4: Write a user define to check any input string is palindrome or not.

```

#include<stdio.h>
#include<conio.h>
xstrrev(char *);
main()
{
char ch[25],ch1[25];
int i;
clrscr();
printf("\nEnter any string : ");
gets(ch);
strcpy(ch1,ch);
xstrrev(ch);
puts(ch);
i=strcmp(ch1,ch);

```

For Comparison use inbuilt function strcmp()

```

if(i==0)
printf("\nPolindrome");
else
printf("\nNot Polindrome");
getch();
}
xstrrev(char *p)
{
char *t=p,c;
for(;*p!='\0';p++);
for(p--;p>t;p--)
{
c=*p;
*p=*t;
*t=c;
t++;
}
}
}

```

Output:

```

Enter any string : nitin
nitin
Polindrome

```

```

Enter any string : nalin
nilan
Not Polindrome_

```

Try yourself

1. Write a user define function to convert any string into uppercase letter.
2. Write a user define function to compare any two string.