

```
#include<stdio.h>

#include<string.h>

#include<ctype.h>

void main()
{
    char str[20];
    printf("enter the string=");
    scanf("%s",str);

    //1.strlen
    printf("1)%d\n",strlen(str));

    //2.strcpy
    char str1[20];
    printf("2)%s\n",strcpy(str1,str));

    //3.strncpy
    char str5[5];
    printf("3)%s\n",strncpy(str5,str1,3));

    //4.strcat
    printf("4)%s\n",strcat(str1,str));

    //5.strupr
    printf("5)%s\n",strupr(str));

    //6.strlwr
    printf("6)%s\n",strlwr(str1));

    //7.strcmp
```

```
char str2[20];

printf("enter second string=");

scanf("%s",str2);

int cmp1=strcmp(str1,str2);

if(cmp1==1)

printf("7)str2 is bigger\n");

else if(cmp1== -1)

printf("7)str1 is bigger\n");

else

printf("7)same strings\n");
```

```
//8.strncmp

int cmp=strncmp(str1,str2,5);

if(cmp==1)

printf("8)str2 is bigger\n");

else if(cmp== -1)

printf("8)str1 is bigger\n");

else

printf("8)same strings\n");
```

```
//9.strchr

char c='r';

char *chr=strchr(str1,c);

if(chr!=NULL)

printf("9)character found at %s\n",chr);

else

printf("9)Substring not Found\n");
```

```
//10.strrchr

char *chr2=strrchr(str1,c);

if(chr2!=NULL)
```

```
printf("10)character found at %s\n",chr2);  
else  
printf("10)Substring not Found\n");
```

```
//11.strstr  
char needle[]="gau";  
char *ptr=strstr(str1,needle);  
if(ptr!=NULL)  
printf("11)Substring Found at %s\n",ptr);  
else  
printf("11)Substring not Found\n");
```

```
//12.strspn  
char str3[]="gau";  
int t=strspn(str1,str3);  
printf("12)Length of initial segment=%zu\n",t);
```

```
//13.strcspn  
char str4[]="sptri";  
int ct=strcspn(str1,str4);  
printf("13)Length of initial segment of str1 that not contain str4=%zu",ct);
```

```
//14.isalph  
char ch=getchar();  
int i=isalpha(ch);  
if(i)  
printf("14)Alphabetic\n");  
else  
printf("14)not alphabetic\n");
```

```
//15.isdigit  
fflush(stdin);  
char dig=getchar();  
if(isdigit(dig))  
printf("15)digit\n");  
else  
printf("15)not digit");
```

```
//16.isspace()  
fflush(stdin);  
char spc=getchar();  
if(isspace(spc))  
printf("is space\n");  
else  
printf("is not space\n");
```

```
}
```