### strlen() function in c

```
#include<stdio.h>
#include <string.h>
int main()
{
     char ch[]={'h', 'e', 'l', 'l', 'o', '\0'};
     printf("Length of string is: %d", strlen(ch));
     return 0;
}
```

# without strlen() finding the length of string:

```
#include<stdio.h>
int main()
{
     char ch[]={'h', 'e', 'l', 'l', 'o', '\0'};
     int i=0, len=0;
     while(ch[i]!='\0')
          len++;
          i++;
     printf("Length of string is: %d", len);
     return 0;
}
```

### strupr() function in c

```
#include<stdio.h>
#include<string.h>
int main()
{
     char str[] = "hello cse";
     printf("%s\n", strupr (str));
    return 0;
}
without using strupr() function:
#include<stdio.h>
int main()
{
     char str[] = "Hello cse";
     int i=0;
     while(str[i]!='\0')
     {
          if(str[i]>='a' && str[i]<='z')
               str[i]=32; //difference between a and A is 32
               i++;
     puts(str);
     return 0;
```

#### strlwr() function in C

```
#include<stdio.h>
#include <string.h>
int main()
{
     char str[] = "CompuTer ScienCe ";
     printf("Given string is: %s\n",str);
     strlwr(str);
     printf("\nString after converting to the lowercase is: %s",str);
     return 0;
without using strlwr() function:
#include<stdio.h>
int main()
{
     char str[] = "Hello cse";
     int i=0;
     while(str[i]!='\0')
     {
          if(str[i]>='a' && str[i]<='z')
               str[i]+=32; //difference between a and A is 32
               i++;
     puts(str);
     return 0;
```

### strcat() / strncat() function in C

```
#include <stdio.h>
#include <string.h>
int main()
{
     char dest[25] = "This is an example";
     char src[50] = " of streat";
     strncat(dest, src, 9);
     puts(dest);
     strcat(dest, src);
     puts(dest);
     return 0;
without using streat() function:
#include <stdio.h>
int main()
{
     char dest[25] = "This is an example";
     char src[50] = " of streat";
     int i,j=0;
     for(i=strlen(dest);;i++)
     {
          dest[i]=src[j];
          if(src[j]=='\0')
             break;
```

```
j++;
     }
    printf("After concatanation: %s",dest);
    return 0;
HomeWork: Try strncat() function
strcpy() / strncpy() function in C
#include <stdio.h>
#include <string.h>
int main()
{
     char src[] = "hello cse";
     char destNew[20], dest[14];
     strcpy(destNew, src);
     strncpy(dest, src, 4);
     printf("strcpy = %s\n strncpy result = %s",destNew,dest);
    return 0;
without using strepy() function:
#include <stdio.h>
int main()
{
     char src[] = "hello cse",dest[20];
     int i,j;
```

```
i=j=0;
     while(src[i]!='\0')
          dest[i]=src[i];
          i++;
     dest[i]='\0';
     printf("After copy result = %s",dest);
    return 0;
}
HomeWork: Try strncpy() function
strcmp() / strncmp() function in C
#include <stdio.h>
#include <string.h>
int main()
     char str1[20], str2[20];
     int val;
     gets(str1);
     gets(str2);
     val = strcmp(str1, str2);
     if (val = 0)
          printf("String1 and String2 are same");
     else if (val > 0)
          printf("String1 is greater than String2");
```

```
else if (val < 0)
           printf("String1 is smaller than String2");
     val = strncmp(str1, str2, 4);
     printf("%d is output",val);
     return 0;
without using stremp() function:
#include <stdio.h>
int main()
{
     char str1[20], str2[20];
     int val=0,i;
     gets(str1);
     gets(str2);
     if(strlen(str1)!=strlen(str2))
     val=1;
     else
          i=0:
           while(str1[i]!='\backslash 0')
           {
                if(str1[i]!=str2[i])
                {
                     val=1;
                     break;
```

```
if( val == 0 )
          printf("String1 and String2 are same");
     else
          printf("String1 and String 2 are different");
     return 0;
HomeWork: Try strncmp() function
strstr() function in C
#include <string.h>
#include <stdio.h>
int main()
{
     char s1[] = "Examples of String";
     char s2[] = "of";
     char* p;
    p = strstr(s1, s2);
     if (p)
     {
          printf("String found\n");
          printf("First occurrence of string '%s' in '%s' is '%s'", s2,
s1, p);
```

```
else
         printf("String not found\n");
    return 0;
}
HomeWork: Try without using strstr() function
strrev() function in C
#include <string.h>
#include <stdio.h>
int main()
{
    char s1[] = "Examples of String";
    printf("Given string: %s",s1);
```

printf("After reverse function %s",s1);

strrev(s1);

return 0;

}

# without using strcmp() function:

```
#include <stdio.h>
int main()
     char s1[] = "Examples of String";
     int len=strlen(s1),i,j,temp;
     i=0;j=len-1;
     while(i!=len/2)
     {
          temp=s1[i];
          s1[i]=s1[j];
          s1[j]=temp;
         i++;
         j--;
     printf("After reverse function %s",s1);
    return 0;
```