

Strings:

It is data structure include set of elements of char

Ex: char st [10];

The most important function used with string:

- **strlen(st)** return length of string

Ex1: write program to read string and compute the numbers in it.

```
#include<iostream.h>

#include<string.h>

void main()

{char st[100],l;

cout<<"Enter st: "<<endl;

cin>>st;

l=strlen(st);

int c=0;

for(int i=0;i<l;i++)

if((st[i]>='0')&&(st[i]<='9'))

c++;

cout<<c; }
```

Ex2: write program to print the middle character in string.

```
#include<iostream.h>

#include<string.h>

void main()

{int i,l;

char st[30];
```

```

cout<<"enter string: " ;
cin>>st;
l=strlen(st);
i=l/2;
cout<<st[i]; }

```

Structure or Records:

It data structure include malty type of data.

We can define the structure as following:

struct struct - name

```

{
    Data type1 field 1;
    Data type2 field 2;
};

```

EX1:

```
#include<iostream.h>
```

```
Struct s1
```

```

{ int x;
  Char a [10];
};

```

```
Void main ()
```

```

{ s1 st;

  Cin>> st.x >> st.a;

  Cout<< st.x << st.a;

```

```
}
```

Ex2:- write program to read and print name and average of n students.

```
#include<iostream.h>
```

```
struct student
```

```
{    char name [30];
```

```
    int  avarege; };
```

```
Void main ()
```

```
{    int n;  cin>>n;
```

```
    student arr [n];
```

```
        for (int i=0; i<n; i++)
```

```
        cin>>arr[i]. avarege x>>arr[i].name;
```

```
        for (i=0; i<n; i++)
```

```
        cout<<arr[i]. avarege <<"-"<<arr[i].name<<"\n"; }
```