

Chapter 7 :- Array and Strings :-

Array

↳ It can be defined as a group of related data items.

Syntax :-

datatype name [size] ;

Ex :- int a[10] ;
 ^ array name
 float b[10] ;

Example

int a[5] ;

	1000	1004	1008	10012	...
a	5	6	8	3	2
	<u>a[0]</u>	<u>a[1]</u>	<u>a[2]</u>	<u>a[3]</u>	<u>a[4]</u>

→ Continuous memory allocation.

// Reading the values in array.

```
int a[5];  
for(i=0; i<5; i++)  
{  
    scanf("%d", &a[i]);  
}
```

$a[0]$, $a[1]$, $a[2]$, $a[3]$, $a[4]$

// Display the elements of array :-

```
for ( i = 0 ; i < 5 ; i++)
```

```
{ printf( "%d\n" , a[i] );
```

```
}
```

$a[0]$, $a[1]$. . . $a[4]$,