ARRAY

- Data structure which stores a collection of homogeneous items
- · They have contigeous memory

```
length

1 2 3 4 5 elements.

0 1 2 3 4 - Index
```

Syntan:-

datatype array-name (size)

int array [5] = { a,b,c,d,e};

```
Array type:-
```

- 1. single dimensional 2. multidimensional
- 1. Single dimensional array
- · Dindex base
- now to find size of array
 - int main()
 - int array []: {112131415}
 - cout ({" size" { size of (array) ({ end];
 - Size of (array) / Size of (array [0])
 - return o;
 - Traversing in array

int main ()

- int array[]: {112,3,4};
- For(int i=0; i<(n-1); i++)
 - cout (4 arrayci);
- 11 For each
- For (int ele: array)
 - cout ({ ele ({ end |;
 - 11 while loop
 - int index = 0;
 - while (index (size)
 {
 cout << array(index);
 index ++;
- Taking input from user.
- # For loop:
 - int main ()
 - char vowels [5]
 - For (int 120; 145; 1++)
 - cin >> vowels [i];
 - }
 - For (int i=0; i < 5; i++)
 - Lout ("array of vowels" (vowels [i] ('' ');
 - 3
 - # for each
 we travel through every
 element in array so we
 can give datatype of element
 - insted of giving datatype of index.
 - for (char & element: vowels)