Static Vs Dynamic Arrays

- Static array means the size of an array is static I.e; fixed
- Dynamic array means the size of an array is Dynamic I.e; flexible
- When an array is created it is created inside Stacking the memory
- The size of the array is decided during at compile time
- When declaring an array it must be a static value only and not variable type in c language however in c++ dynamic allocation is possible during compile time

We can create array inside Heap

- When accessing any value inside a heap it must be done through a pointer

Example :

```
Void main( )
{

        int A[5];
        int *p;
c++     p = new int[5];

C lang  p =( int * ) malloc ( 5* sizeof ( int ) );

.
.
.
```

- When the work in heap is done it must be deleted or it will cause memory leak which will cause problem
- To release the heap memory we do

c++ delete[ ] p;

C lang free(p);