

***CSE 331L (Microprocessor Interfacing & Embedded System (Lab))***

HOMEWORK

Submitted by:

NAME: HOSNE ARA  
ID: 1632267642  
SECTION: 07

Submitted to:

ASIF AHMED NELOY

Dynamic array: Dynamic arrays are those exhibits which are dispensed memory at the run time with the assistance of heap. Thus Dynamic exhibit can change its size during run time. Dynamic exhibits beat a constraint of static exhibits, which have a fixed limit that should be indicated at designation. A unique array isn't a similar thing as a powerfully apportioned exhibit, which is a cluster whose size is fixed when the array is allotted, although a dynamic cluster may utilize such a fixed-size exhibit as a back end.

Example:

**int main(int argc, char \*argv[])**

**{**

**int i;**

**double\* p;**

**p = calloc(10, sizeof(double) );**

**for ( i = 0; i < 10; i++ )**

**\*(p + i) = i;**

**for ( i = 0; i < 10; i++ )**

**printf("\*(p + %d) = %lf\n", i, \*(p+i) );**

**free(p);**

**putchar('\n');**

**p = calloc(4, sizeof(double) );**

**for ( i = 0; i < 4; i++ )**

**\*(p + i) = i\*i**

**for ( i = 0; i < 4; i++ )**

**printf("\*(p + %d) = %lf\n", i, \*(p+i) );**

**free(p);**

**}**

This is an example of dynamic array in C.