Day -17 of 101 days of codding challenge

-------------------------------------Heap-------------------------------------------------------

* It allocates memory at run time by using the new keyword.
* As much as size we can allocate as per requirements.
* As heap pointes to the memory address so we can use it through out program.
* Dangling Pointer:- Memory address is available but value is not there into the memory.

**Code:-**

#include<iostream>

using namespace std;

int main()

{

int \*p = new int; // declare dynamic memory which points by p variable

\*p = 100;

cout<<"Value of p:"<<\*p<<endl;

cout<<"Address of the p:"<<p<<endl;

delete(p); // for memeory deallocation but still it will point the memory address (dangling pointer)

cout<<"value of p after deallocating:"<<\*p<<endl;

cout<<"Address of the p after deallocating:"<<p<<endl;

p = new int[7]; // allocating array into the memory address of p

delete[] p; // now it will delete the memory pointed by the p

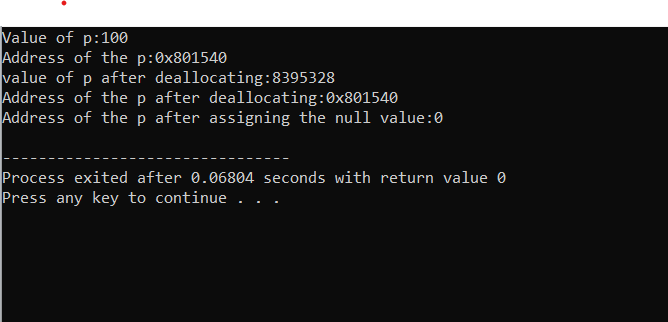
p = NULL ; // assigned null value so that it will not keep memory address(fully deallocation)

cout<<"Address of the p after assigning the null value:"<<p<<endl;

return 0;

}

**Output:**

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