University of Azad Jammu & Kashmir

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BSCS-04

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**Question 01:**

Allocate the memory using malloc() function and display the memory address (suppose you are doing for 3 memory locations).

**CODE**

#include <iostream>

#include <cstdlib>

Using namespace std;

int main() {

int\* memory1 = (int\*)malloc(sizeof(int));

int\* memory2 = (int\*)malloc(sizeof(int));

int\* memory3 = (int\*)malloc(sizeof(int));

cout << "Memory Address 1: " << memory1 << endl;

cout << "Memory Address 2: " << memory2 << endl;

cout << "Memory Address 3: " << memory3 << endl;

free(memory1);

free(memory2);

free(memory3);

return 0;

}

**Question 02**

**Reallocate the memory using realloc() function and display the memory address(suppose you are doing so for 6 memory locations).**

**CODE**

#include <iostream>

#include <cstdlib>

using namespace std;

int main() {

int\* memory = (int\*)malloc(3 \* sizeof(int));

cout << "Memory Address 1: " < < &memory[0] << endl;

scout << "Memory Address 2: " << &memory[1] << endl;

cout << "Memory Address 3: " << &memory[2] <<endl;

int\* resizedMemory = (int\*)realloc(memory, 6 \* sizeof(int));

cout << "Resized Memory Address 1: " << &resizedMemory[0] <<endl;

cout << "Resized Memory Address 2: " << &resizedMemory[1] <<endl;

cout << "Resized Memory Address 3: " << &resizedMemory[2] <<endl;

cout << "Resized Memory Address 4: " << &resizedMemory[3] <<endl;

cout << "Resized Memory Address 5: " << &resizedMemory[4] <<endl;

cout << "Resized Memory Address 6: " << &resizedMemory[5] <<endl;

free(resizedMemory);

return 0;

}