Data2 –Quiz (Pointers & Memory allocation) – Spring– 2023/2224 منسق المادة: د. بيان الفيومي

Answer are at the end of the test bank

Q: Write a c++ program to dynamically allocate an array of integers and initialize its elements: [10 marks]



Answers

```
#include <iostream>
#include <string>
using namespace std;
void main()
    int numIntegers;
    cout << "Hi Dr.Bayan ,,, please enter the number of integers: ";
    cin >> numIntegers;
    int *integers = new int[numIntegers];
    cout << "Enter" << numIntegers << " integers:\n";</pre>
    for (int i = 0; i < numIntegers; ++i)
       cin >> integers[i];
    cout << "Integers and their addresses:\n";</pre>
    for (int i 0; i numIntegers; ++i) {
       cout << "Integer: " << integers[i] << " \Address: " << %integers[i] << endl;</pre>
    delete[] integers;
}
```