Activity No. 4.2	
Seatwork 4.2: Pointers	
Course Code: CPE007	Program: Computer Engineering
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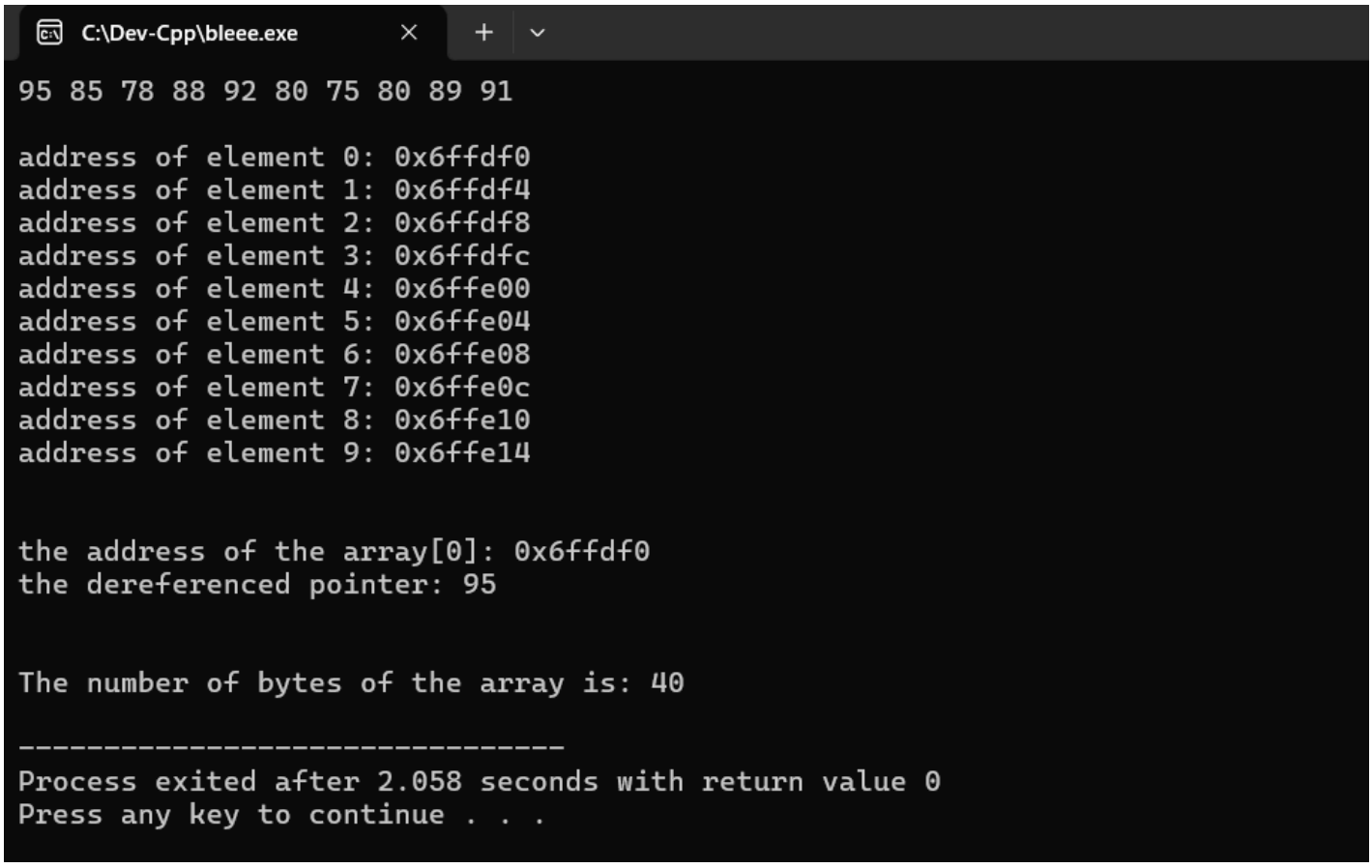
6. Output	

bleee.cpp

```cpp
#include <iostream>
using namespace std;

int main() {
    const int size = 10;
    int scores[size] = {95, 85, 78, 88, 92, 80, 75, 80, 89, 91};

    for (int i = 0; i < size; i++) {
        cout << scores[i] << " ";
    }

    cout << endl << endl;
    for (int i = 0; i < size; i++)
        cout << "address of element " << i << ": " << &scores[i] << endl;

    cout << endl << endl;
    int *scorePtr;
    scorePtr = &scores[0];

    cout << "the address of the array[0]: " << scorePtr << endl;
    cout << "the dereferenced pointer: " << *scorePtr << endl;
    cout << endl << endl;

    int numBytes = sizeof(scores);
    cout << "The number of bytes of the array is: " << numBytes << endl;

    return 0;
}
```



7. Supplementary Activity

The program creates an array of 10 numbers called scores, with 10 numbers in it. And the numbers have all already been assigned a value. The program prints out all the numbers in the array at first so we can see the contents. Then the program prints out the memory address of every element, which tells the memory address of every element and the values in the computer memory. Then the program creates a pointer called scorePtr that points to the first element for the pointer, which can access values on arrays. Finally, the sizeof operator is used to calculate the number of bytes the entire array occupies in memory. The program prints the result.

8. Conclusion

Through this activity I learned how arrays, memory, and pointers interact. It prints all the numbers in the array and also prints out the memory address of each number. The pointer function "scorePtr" allowed me to see how we can point to the first element and see both its address and element. I learned more about how arrays are stored in the computer and how pointers help us use arrays better. I think I performed well in this activity because I was able to understand the base elements of arrays and pointers, but I need to improve more to understand memory address and practice with pointers so I can master them.