Task 4:

```cpp
#include <iostream>
// Array example
void arrayExample() {
    int arr[5] = {1, 2, 3, 4, 5};
    int* ptr = arr; // Pointer to the first element of the array
    std::cout << "Array Example:" << std::endl;
    for (int i = 0; i < 5; i++) {
        std::cout << "arr[" << i << "] = " << *(ptr + i) << std
            ::endl;
        //Dereference the pointer to access the value at the i-th
            index
    }
}
// Linked list example
struct Node {
    int data;
    Node* next;
};
void linkedListExample() {
    Node* head = NULL; // Start with an empty list
    // Add elements to the linked list
    for (int i = 5; i > 0; i--) {
        Node* newNode = new Node;
        newNode->data = i;
        newNode->next = head;
        head = newNode;
}
    // Traverse the linked list and print its elements
    std::cout << "Linked List Example:" << std::endl;
    Node* currentNode = head;
    while (currentNode != NULL) {
        std::cout << currentNode->data << std::endl;
        currentNode = currentNode->next;
    }
    // Free the memory allocated for the linked list
    currentNode = head;
    while (currentNode != NULL) {
        Node* nextNode = currentNode->next;
        delete currentNode;
        currentNode = nextNode;
    }
}
```

```
41 int main() {
42     arrayExample();
43     linkedListExample();
44     return 0;
45 }
```

Output:

```
/tmp/sUCMCaxzCY.o
Array Example:
arr[0] = 1
arr[1] = 2
arr[2] = 3
arr[3] = 4
arr[4] = 5
Linked List Example:
1
2
3
4
5
```