

Assignment - 3

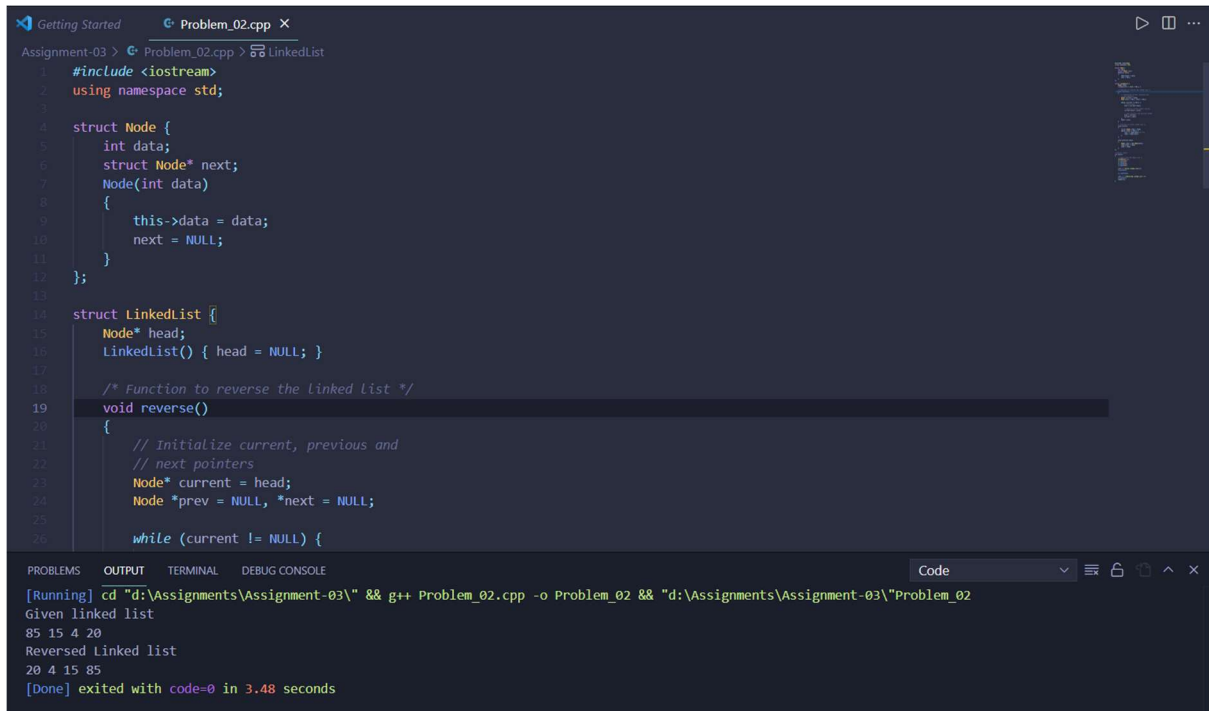
Q.2 Given pointer to the head node of a linked list; the task is to reverse the linked list. We need to reverse the list by changing the links between nodes.

Input: Head of following linked list

1->2->3->4->NULL

Output: Linked list should be changed to,

4->3->2->1->NULL



```
1 #include <iostream>
2 using namespace std;
3
4 struct Node {
5     int data;
6     struct Node* next;
7     Node(int data)
8     {
9         this->data = data;
10        next = NULL;
11    }
12 };
13
14 struct LinkedList {
15     Node* head;
16     LinkedList() { head = NULL; }
17
18     /* Function to reverse the Linked List */
19     void reverse()
20     {
21         // Initialize current, previous and
22         // next pointers
23         Node* current = head;
24         Node *prev = NULL, *next = NULL;
25
26         while (current != NULL) {
27
28             [Running] cd "d:\Assignments\Assignment-03\" && g++ Problem_02.cpp -o Problem_02 && "d:\Assignments\Assignment-03\Problem_02
29 Given linked list
30 85 15 4 20
31 Reversed Linked list
32 20 4 15 85
33 [Done] exited with code=0 in 3.48 seconds
```

MCQs

1. ofstream
2. ifstream
3. fstream
4. ios::binary
5. If the file is opened for output operations and it already existed, its previous content is deleted and replaced by the new one.
6. myfile.open ("example.bin", ios::out);
7. myfile.close();