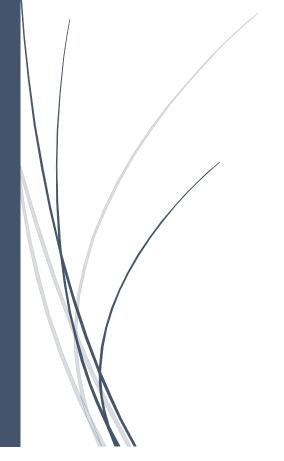
9/1/2024

FAHEEM AKBAR

DSA Lab: 02 Solution



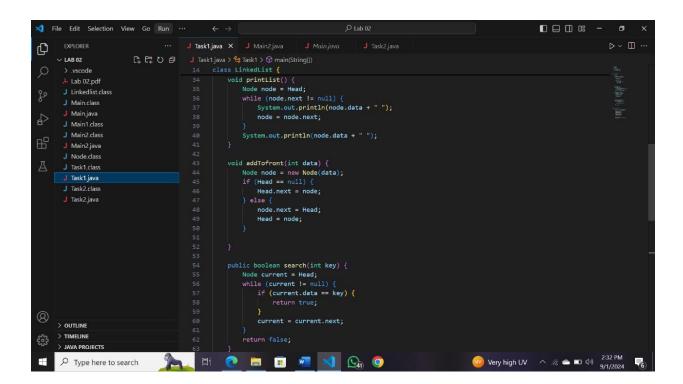
CMS ID: 023-23-0365

DSA LAB 02 || SUBMITTED TO MA'AM MARINA GUL

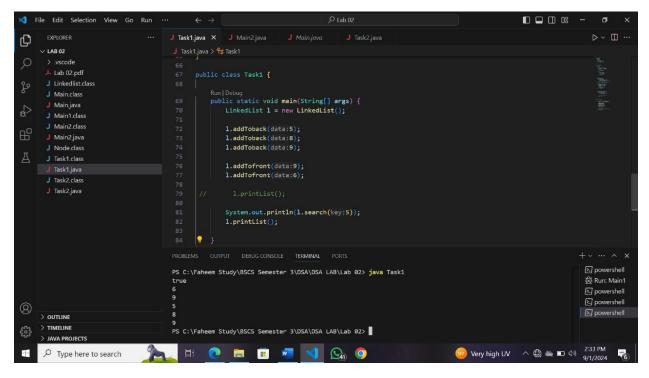
Task 01: Search number in Linked List

Solution:

```
ズ File Edit Selection View Go Run ⋯
                                                                                                         ··· J Task1.java X J Main2.java J Main.java J Task2.java
     EXPLORER
<sub>C</sub>
                   ∨ LAB 02
     > .vscode
     Lab 02.pdf
                                    class Node {
     J Linkedlist.class
                                       int data;
     J Main.class
    J Main.java
J Main1.class
                                        Node(int data) {
                                          this.data = data;
this.next = null;
     J Node.class
   J Task1.java
                                       void addToback(int data) {
                                          Node node = new Node(data);
                                              Head = node;
                                             Node n = Head;
while (n.next != null)
                                              n.next = node:
    > OUTLINE
    > TIMELINE
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```



Output



Task 2: Find length of Linked List

Solution

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刘 File Edit Selection View Go Run …
                                                                                                           J Task2.java ×
                                                                                                                          ▷ ~ □ …
0
     EXPLORER
    ∨ LAB 02
                                     class Node {
     > .vscode
                                        Node next;
     J Linkedlist class
     J Main.class
    J Main.java
J Main1.class
                                           this.data = data;
this.next = null;
                                        Node Head:
                                        void addToback(int data) {
   Node node = new Node(data);
                                           if (Head == null)
                                              Head = node;
                                                 n = n.next:
    > OUTLINE
                                             System.out.println(node.data + " ");
```

```
刘 File Edit Selection View Go Run …
                                                                                                                            0
     EXPLORER
                              ··· J Task1.java J Main2.java J Main.java J Task2.java X
                       [ ☐ ☐ J Task2.java > G Task2 > G main(String[])
    V LAB 02
                                     10 class LinkedList {
28 void printList(
     > .vscode
                                             void printList() {
      Lab 02.pdf
                                                     System.out.println(node.data + " ");
      J Linkedlist class
                                                     node = node.next;
      J Main.class
                                                  System.out.println(node.data + " ");
                                              void addTofront(int data) {
                                                  Node node = new Node(data);
      J Node.class
                                                  if (Head == null) {
                                                     Head.next = node;
                                                     Head = node;
                                              int length() {
                                                 Node current = Head;
while (current != null) {
                                                     current = current.next;
                                                  return count;
     > OUTLINE
     > TIMELINE
253
     > JAVA PROJECTS
                                        H 🙋 🔚 🔳 💆 刘 💁 🧿
                                                                                                           • Hot weather ^ //. • • • 49) 3:03 PM 9/1/2024
```

Output:

