```java
/**
 * @Author: Shivam Patel
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 * @Course: 95-771 Data Structures and Algorithms for Information
Processing
 * @Assignment_Number: Project 1 - Part 1
 */
```

Output – ObjectNode.java

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0.4.101-hotspot\bin\java.exe" "-javaagent:C:\Progra
abcdefghijklmnopqrstuvwxyz
cfilorux
Number of nodes = 26
Number of nodes = 26
abcdefghijklmnopqrstuvwxyz
Number of nodes in k = 26
Number of nodes in k = 26
abcdefghijklmnopqrstuvwxyz
Number of nodes in k2 = 26
Number of nodes in k2 = 26

Process finished with exit code 0
```

Output – SinglyLinkedList.java

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0.4.101-hotspot\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 202

Adding new nodes using addAtFrontNode() and addAtEndNode().
Tested addAtFrontNode() and addAtEndNode().

toString() output = abcdef

Testing reset(), hasNext() and next() functions:
a
b
c
d
e
f

Testing countNodes(). Total nodes = 6
s.getLast() = f
s.getObjectAt(3) = d
s.getCountNodes() = 6

Process finished with exit code 0
```

Output – OrderedLinkedListOfIntegers.java

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0.4.101-hotspot\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2022.2.1\
Created first OrderedLinkedListOfIntegers o1 with 20 random values.
Created second OrderedLinkedListOfIntegers o2 with 20 random values.
Merged o1 and o2 using merge(o1, o2).

Testing reset(), hasNext() and next() functions:
632
668
677
953
1066
1251
1856
2113
2392
2554
2638
2839
2918
3104
3178
3245
3493
4208
4571
4682
4935
5380
5730
5871
5961
6042
6339
6514
6621
6746
6851
7404
7579
7725
7797
7835
7882
7956
8687
9790

Process finished with exit code 0
```