```
public class DLL
{
      Node head;
class Node
{
                    int data;
                    Node prev;
                    Node next;
Node(int d)
data = d;
}
      }
public void push(int new_data)
Node new_Node = new Node(new_data);
new_Node.next = head;
                    new Node.prev = null;
if (head != null)
                           head.prev = new_Node;
head = new_Node;
      }
public void InsertAfter(Node prev_Node, int new_data)
if (prev_Node == null)
                           System.out.println("The given previous node cannot be NULL
");
                           return;
Node new_node = new Node(new_data);
new_node.next = prev_Node.next;
prev_Node.next = new_node;
new node.prev = prev Node;
if (new_node.next != null)
                          new_node.next.prev = new_node;
      void append(int new_data)
Node new_node = new Node(new_data);
             Node last = head;
new_node.next = null;
if (head == null)
{
                           new node.prev = null;
                           head = new_node;
                           return;
while (last.next != null)
                           last = last.next;
last.next = new_node;
new_node.prev = last;
public void printlist(Node node)
```

```
Node last = null;
                    System.out.println("Traversal in forward Direction");
                    while (node != null)
{
                          System.out.print(node.data + " ");
                          last = node;
                          node = node.next;
                    System.out.println();
                    System.out.println("Traversal in reverse direction");
                    while (last != null)
{
                          System.out.print(last.data + " ");
                          last = last.prev;
                    }
public static void main(String[] args)
DLL dll = new DLL();
dll.append(6);
dll.push(7);
dll.push(1);
dll.append(4);
dll.InsertAfter(dll.head.next, 8);
             System.out.println("Created DLL is: ");
                    dll.printlist(dll.head);
      }
}
pse IDE
ct Run Window Help

    □ Console 
    □ Coverage

   4 <terminated> DLL [Java Application] C:\Program Files\Java\jdk-15.0.1\bin\javaw.exe (May 16, 2023, 8:21:47 AN
   4 Created DLL is:
   4 Traversal in forward Direction
    4 1 7 8 6 4
    5 Traversal in reverse direction
    5 4 6 8 7 1
    5
    5
    5
    5
    5
    5
    5
    6
    6
    6
```