```
package datastructure;
public class QueueLinkedList {
    Node front, rear;
    public QueueLinkedList() {
        this. front = null;
        this.rear = null;
    void enqueue(int key) {
        Node temp = new Node(key);
        if (this.rear == null) {
            this. front = this. rear = temp;
            return:
        this.rear.next = temp;
        this.rear = temp;
    Node dequeue() {
        if (this. front == null)
            return null;
        Node temp = this.front;
        this. front = this. front. next;
        if (this. front == null)
            this.rear = null;
        return temp;
```

```
public static void printList(QueueLinkedList list) {
    Node currentNode = list.front;
    System.out.print("Linked List Elements: ");
    while (currentNode != null) {
        System.out.print(currentNode.data + " ");
        currentNode = currentNode.next;
    System. out. println();
public static void main(String[] args) {
    QueueLinkedList q = new QueueLinkedList();
    q. enqueue (1);
    q. enqueue (2);
    q. enqueue (3);
    printList(q);
    System.out.println("Dequeued item is " + q.dequeue().data);
    printList(q);
```