```
6. Write a program in Java to insert a new element in a sorted circular linked list
class Node {
  int data;
  Node next;
  public Node(int data) {
    this.data = data;
    this.next = null;
  }
}
class CircularLinkedList {
  Node head;
  public CircularLinkedList() {
    head = null;
  }
  public void insert(int data) {
    Node newNode = new Node(data);
    if (head == null) {
      head = newNode;
      head.next = head;
    } else if (data <= head.data) {</pre>
      Node last = getLastNode();
      newNode.next = head;
      last.next = newNode;
      head = newNode;
    } else {
      Node current = head;
```

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while (current.next != head && data > current.next.data) {
      current = current.next;
    }
    newNode.next = current.next;
    current.next = newNode;
  }
}
public Node getLastNode() {
  Node temp = head;
  while (temp.next != head) {
    temp = temp.next;
  }
  return temp;
}
public void display() {
  if (head == null) {
    System.out.println("The circular linked list is empty.");
    return;
  }
  Node current = head;
  do {
    System.out.print(current.data + " ");
    current = current.next;
  } while (current != head);
  System.out.println();
}
```

}

```
public class Main {
  public static void main(String[] args) {
    CircularLinkedList list = new CircularLinkedList();
    // Inserting elements into the sorted circular linked list
    list.insert(10);
    list.insert(20);
    list.insert(30);
    list.insert(40);
    System.out.println("Original list:");
    list.display();
    // Inserting a new element
    list.insert(25);
    System.out.println("List after inserting 25:");
    list.display();
  }
}
OUTPUT:
Original list:
10 20 30 40
List after inserting 25:
10 20 25 30 40
```