Write a Java program to find the maximum and minimum value node from a circular linked list public class MinMax { //Represents the node of list. public class Node{ int data; Node next; public Node(int data) { this.data = data; } } //Declaring head and tail pointer as null. public Node head = null; public Node tail = null; //This function will add the new node at the end of the list. public void add(int data){ //Create new node Node newNode = new Node(data); //Checks if the list is empty. if(head == null) { //If list is empty, both head and tail would point to new node. head = newNode;

tail = newNode;

newNode.next = head;

```
}
  else {
    //tail will point to new node.
    tail.next = newNode;
    //New node will become new tail.
    tail = newNode;
    //Since, it is circular linked list tail will points to head.
    tail.next = head;
  }
}
//Finds out the minimum value node in the list
public void minNode() {
  Node current = head;
  //Initializing min to initial node data
  int min = head.data;
  if(head == null) {
    System.out.println("List is empty");
  }
  else {
     do{
       //If current node's data is smaller than min
       //Then replace value of min with current node's data
       if(min > current.data) {
         min = current.data;
```

```
}
       current= current.next;
    }while(current != head);
    System.out.println("Minimum value node in the list: "+ min);
  }
}
//Finds out the maximum value node in the list
public void maxNode() {
  Node current = head;
  //Initializing max to initial node data
  int max = head.data;
  if(head == null) {
    System.out.println("List is empty");
  }
  else {
     do{
       //If current node's data is greater than max
       //Then replace value of max with current node's data
       if(max < current.data) {</pre>
         max = current.data;
       }
       current= current.next;
      }while(current != head);
```

```
System.out.println("Maximum value node in the list: "+ max);
    }
  }
  public static void main(String[] args) {
    MinMax cl = new MinMax();
    //Adds data to the list
    cl.add(5);
    cl.add(20);
    cl.add(10);
    cl.add(1);
    //Prints the minimum value node in the list
    cl.minNode();
    //Prints the maximum value node in the list
    cl.maxNode();
 }
}
```

