**Practice project - Assisted**

Write a program in Java to insert a new element in a sorted circular linked list

**public** **class** LinkedList1

{

**static** **class** Node

{

**int** data;

Node next;

Node(**int** d)

{

data = d;

next = **null**;

}

}

Node head;

LinkedList1()

{

head = **null**;

}

**void** sortedInsert(Node new\_node)

{

Node current = head;

**if** (current == **null**)

{

new\_node.next = new\_node;

head = new\_node;

}

**else** **if** (current.data >= new\_node.data)

{

**while** (current.next != head)

current = current.next;

current.next = new\_node;

new\_node.next = head;

head = new\_node;

}

**else**

{

**while** (current.next != head && current.next.data < new\_node.data)

current = current.next;

new\_node.next = current.next;

current.next = new\_node;

}

}

**void** printList()

{

**if** (head != **null**)

{

Node temp = head;

**do**

{

System.***out***.print(temp.data + " ");

temp = temp.next;

} **while** (temp != head);

}

}

**public** **static** **void** main(String[] args)

{

LinkedList1 list = **new** LinkedList1();

**int** arr[] = **new** **int**[] {12, 56, 2, 11, 1, 90};

Node temp = **null**;

**for** (**int** i = 0; i < 6; i++)

{

temp = **new** Node(arr[i]);

list.sortedInsert(temp);

}

list.printList();

}

}