## Phase-1 Practice Project: Assisted Practice

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

```
class Node
{
   int data;
   Node next;
   Node(int d)
    {
        data = d;
        next = null;
   }
}
class Circularlink
{
   Node head;
   Circularlink() { head = null; }
   void sortedInsert(Node new_node)
    {
        Node current = head;
```

source code:

```
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)</pre>
```

```
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)
{
     Circularlink list = new Circularlink();
    int arr[] = new int[] {3, 75, 9, 32, 8, 30};
```

```
Node temp = null;

for (int i = 0; i < 6; i++)
{
    temp = new Node(arr[i]);
    list.sortedInsert(temp);
}

list.printList();
}</pre>
```

## output:

