Assignment:-5

1)WAP TO PERFORM SINGLY LINK LIST.

```
class Node { int data; Node next;
public Node(int data) { this.data = data; this.next = null;}}
public class SinglyLinkedList { Node head = null;
public void insert(int data) {
Node newNode = new Node(data); if (head == null) {
head = newNode;
} else {
Node temp = head;
while (temp.next != null) {
temp = temp.next; }
temp.next = newNode;    } } public void display() {
if (head == null) {
System.out.println("The list is empty."); } else { Node temp = head;
while (temp != null) {
System.out.print(temp.data + " -> "); temp = temp.next;    }
System.out.println("null");   } } public void delete(int key) {
if (head == null) {

System.out.println("The list is empty. Nothing to delete."); return;
}     if (head.data == key) {
head = head.next; // Delete the head node System.out.println("Deleted: " + key);
return;     }
Node temp = head;
while (temp.next != null && temp.next.data != key) { temp = temp.next;
}     if (temp.next == null) {
System.out.println("Element " + key + " not found.");
} else {
temp.next = temp.next.next;
System.out.println("Deleted: " + key);   }} public static void main(String[]
args) {
SinglyLinkedList list = new SinglyLinkedList(); list.insert(10);
list.insert(20); list.insert(30); list.display();
list.delete(20); list.display();list.delete(40); list.display();}}
```

2)WAP TO PRFORM SINGLY CIRCULAR LINK LIST.

```
class Node { int data; Node next;
public Node(int data) { this.data = data; this.next = null;}}
public class CircularLinkedList { Node tail = null;
public void insert(int data) {
Node newNode = new Node(data); if (tail == null) {
tail = newNode; tail.next = newNode;
} else {
newNode.next = tail.next; tail.next = newNode;
tail = newNode;   }     }
public void display() {if (tail == null) {
System.out.println("The list is empty."); return;
}     Node temp = tail.next;
do {System.out.print(temp.data + " -> ");
temp = temp.next;} while (temp != tail.next);
System.out.println("(circular)"); }
public void delete(int key) { if (tail == null) {
System.out.println("The list is empty. Nothing to delete."); return;
} Node current = tail.next;

Node previous = tail; do { if (current.data == key) {
if (current == tail.next && current == tail) {tail = null;
} else if (current == tail.next) { tail.next = current.next;
} else if (current == tail) {
previous.next = current.next; tail = previous; } else {
previous.next = current.next; } System.out.println("Deleted: " + key); return;
      }previous = current;
```

```
current = current.next; } while (current != tail.next);
System.out.println("Element " + key + " not found.");
} public static void main(String[] args) {
CircularLinkedList list = new CircularLinkedList(); list.insert(10);
list.insert(20);
list.insert(30);list.display(); list.delete(20); list.display();list.delete(40);
list.display();   }}
```

3)WAP TO PERFORM HTML APPLET TAG.

```
<!DOCTYPE html>
<html>
<head>
<title>Java Applet Example</title>
</head>
<body>
<h1>My Java Applet</h1>
<applet code="MyApplet.class" width="300" height="200"> Your browser does not
support the applet tag.
</applet>
</body>
</html>
```