## Problem 1: Reverse Linked List

```
package ishwarchavan.com;
public class ReverseLinkedList {      //class created
     static Node head;
     static class Node {
                           //node created
           int data;
           Node next;
           Node(int d) {
                 data = d;
                 next = null;
     Node reverse (Node node) { /* Function to reverse the linked list */
           Node prev = null;
           Node current = node;
           Node next = null;
           while (current != null) { //condition checking
                 next = current.next;
                 current.next = prev;
                 prev = current;
                 current = next;
           }
           node = prev;
           return node;
                         //return node
      }
     void printList(Node node) {    // prints content of double linked list
           while (node != null) {
                 System.out.print(node.data + " ");
                 node = node.next;
           }
     ReverseLinkedList list = new ReverseLinkedList ();
           list.head = new Node(1);
           list. \overline{head}. next = new Node (2);
           list. \overline{head}. next. next = new Node (3);
           list.head.next.next.next = new Node(4);
           System.out.println("Given Linked list");
           list.printList(head);
           head = list.reverse(head);
                                        //function and calling
           System.out.println("");
           System.out.println("Reversed linked list ");
           list.printList(head);
     }
}
```

## Daily Practice Problem Date 16/12/2023

## Problem 2: Power of two

```
package ishwarchavan.com;
import java.io.*;
public class isPowerOfTwo {          //class created
      static boolean isPowerOfTwo(int n){    //constructor created
```

```
if (n == 0) //if true then return false
    return false;

while (n != 1) { //condition checking
    if (n % 2 != 0)
        return false;
    n = n / 2;
}

return true;
}

public static void main(String args[]) { //main program started
    if (isPowerOfTwo(4)) //function calling
        System.out.println("Yes");
    else
        System.out.println("No");
}
```

## Problem 3: The number of digits one