Daily Work Practice: Date - 16/8/2023

Problem: Intersection of two linked lists

```
package com.ishwarchavan;
import java.util.*;
import java.io.*;
static class Node {
           int data;
                           //linked list pointer created
           Node next;
           Node (int d)
                data = d;
                next = null;
     public Node getIntersectionNode(Node head1, Node head2) {
                                                              //function is
created here for to get the intersection of two linked list
           Node temp = head1;
                while(temp != null) {
                                                //if both nodes are same
                      if(temp == head2) {
    return head2;
                                                  //return head2
                      temp =temp.next;
                head2 =head2.next;
                                       //if intersection is not possible then return
           }
null
           return null;
     }
           public static void main(String[] args) {
                                                       //main program started
                Intersection list = new Intersection();
                Node head1, head2;
                                                        //created two linked list
                head1 =new Node(10);
                head2 = new Node(3);
                Node newNode = new Node(6);
                head2.next = newNode;
                newNode = new Node (9);
                head2.next.next = newNode;
                newNode = new Node(15);
                head1.next = newNode;
                head2.next.next.next = newNode;
                newNode = new Node(30);
                head1.next.next = newNode;
                head1.next.next.next = null;
                Node intersectionPoint = list.getIntersectionNode(head1, head2);
                if(intersectionPoint == null) {
                                                        // if satistfid this
condition then execute below statement
                      System.out.println("No Intersection Point");
                 }else {
                                                        // other wise print the
below statement
                      System.out.println("Intersection Point: "+
intersectionPoint.data);
                }
}
```

Program: Factorial of Trailing Zeroes

```
package com.ishwarchavan;
public class FactorialOfTrailinZeroes {
   find trailing zeroes
      for(int i=1; i<= n; i++) {</pre>
                       //loops iterating
          int j =i;
          while (j % 5 == 0) { //if true then increment
             count++;
             j /=5;
          }
               //if false then return count
      return count;
   int n = 10;
      System.out.println(countTrailingZeroes(n));
   }
```