```
IT22005
Kth Smallest element
                        diministry of the opposit
Code:
Public class KthsmallestElement
   public static int findkthsmallest (Armay List LInteger) list, int K)
   Collections. sort (list);
   neturn list. get (K-1);
public static void main (string [] args) f
  Scanners se z new Scanners (System. in);
 Arrivaglist LInteger> list = new Arrivaglist L) ();
 int nzsc.negtInt();
for (int izo; i/n; i++)
 list. add (sc. negtth());
int Kz sc. neatInt();
 int smallestz findKthSmallest (list, K);
System. out. println (" The "+K+" th smallest element
                   is: " + smalles+);
 sc. close ();
```

· Linked List Equality

<u>Code:</u>
impost java. util. \*;
public class Equality f

public static void main (string [] args)}

LinkedList LIntegen> list1 = new LinkedList2> (Armays.asList(1,2,3)),

LinkedList LInteger(> list2 = new LinkedList2> (Armays.asList(1,2,3)),

LinkedList LInteger(> list3 = new LinkedList2> (Armays.asList(1,3,2)),

Consignation of the Kolin assist

4 ( directly in the property) ma

Anna put want mup galangen

System.out. println ("list1 = = list2." + list1. equals (list2)); System.out. println ("list1 = z list3: " + list1. equals (list3));

when we say the unishburd bus rish par pols.

Mapping of world Frequency inusing tree map.

Code:

import java. util. \*;

public class World Frequency Tree Map of

public static void main (string[] args)

String text= "I am Maisha Haq.";

String [] worlds = text.split("");

```
Thee Map 2 string, Integer > map = new Tree Map L7 0:
 ton (string world: worlds)
  map. put (world, map. get On Default (world, 0) +1);
           En & ( grant I aprint & ) mount biod office officery
 for (Map. Entry & String, Integer ) ontry: map. entry set () }
 System. out. println (entry getkey ()+1-7" + entry getvalue)).
   Avid List (Integorialists and Linkellit ) Marays, actist (1. 3. 7)
    often out promily ("light = 1612" + light, equals (light));
    (control probable ("left = lists: "+ hall equals (11sts));
· Stack and queue using Priorrity queue with custom compa
 ton.
 import java. util. *;
Class CustomElement &
                                       f. Pava. all. go
    int value;
     int orderc!
  Custom Element (int value, intorderc) &
     this value = value;
     this, oreder z oredere;
                       1 Hilly Josef T Haron F T
```

```
public class QueueStackusing Priority Queue j
    Static int counter 20;
 public static void main (string[] args) }
 Priority Queue Loustom Element > queue z new Priority Queue
             <>> (Comparator. comparing Int (a -> a.onder)).
 Priorzity Queue Coustom Element) stack z new Proiorzity Queue
          4> ((a,b) -> b.onder - a.onderc);
top (int i: new int[] {10,20, 30})}
  queue add (new custom Element (i, counter));
  Stack.add (new custom Element (i, counters)):
  counter++; }
System.out. printin ("Queue Oreder : "), and is in the
while (! queue. is Empty()) " Mashute war 201) fug strakist
   System.out. println (queue poll (), value).
System. out. println ("stack Order : ");
while (!stack is Empty()),
  System.out.println(stack.poll(), value).
```

```
Student Treemapy of the Code:
                     er Effection for intelligation
 Code:
 class students
Stude string name:
 Student (string name, intage)}
   this rame zname;
   this age zage.
Public string tostring ()}
   neturen name + " ("+age + "years)"; ))
Public class Student TreeMap {
Public static void main (string[] args)
TreeMap 2Integer, Student/students = new TreeMap 27();
Students. put (101, new student (" Maisha", 22));
Students. put (102, new student ("Mim," 22));
stadents. put (103, new student ("Asa", 22));
for (Map. Entry / Integer, Student rentry: students.entry Set())
 System. out. praintln("ID: "+entry.getkey()+"-> "+entry.
```