Assignment 14

**Name - Venkateshwarlu Egurla( Shashi)**

**package** com.docter;

**import** java.util.Set;

**class** Docter {

**int** Docterid;

String Doctername;

Set <Paitent> Paitent;

**public** Docter(**int** Docterid, String Doctername , Set<Paitent> paitent) {

**super**();

**this**.Docterid = Docterid;

**this**.Doctername = Doctername;

**this**.Paitent = paitent;

}

@Override

**public** String toString() {

**return** "[Docterid = "+ Docterid+ ",docter name = "+ Doctername + ", paitent = " + Paitent+ " ]";

}

}

**public** **class** Paitent {

**int** Paitentid ;

String Paitentname;

String PaitentDisease ;

**public** Paitent(**int** Paitentid ,String Paitentname, String PaitentDisease) {

**this**.Paitentid = Paitentid;

**this**.Paitentname = Paitentname;

**this**.PaitentDisease = PaitentDisease;

}

@Override

**public** String toString() {

**return** "[id = "+ Paitentid+ ",Paitent name = "+ Paitentname + ",PaitentDisease = " + PaitentDisease+ " ]";

}

}

**import** java.util.LinkedHashMap;

**import** java.util.LinkedHashSet;

**import** java.util.Map;

**import** java.util.Set;

**public** **class** Docterappointment {

**public** **static** **void** main(String[] args) {

Paitent p1 = **new** Paitent (101, "shashi", "headache") ;

Paitent p2 = **new** Paitent (103, "tarun", "fever") ;

Paitent p3 = **new** Paitent (102, "bharath", "cold&cough") ;

Set<Paitent> s1 = **new** LinkedHashSet<Paitent>();

s1.add(p1);

s1.add(p2);

s1.add(p3);

Docter d1 = **new** Docter(1, "Ram",s1);

System.***out***.println(d1);

}

}

**OUTPUT**

**[Docterid = 1,docter name = Ram,**

**paitent = [[id = 101,Paitent name = shashi,PaitentDisease = headache ],**

**[id = 103,Paitent name = tarun,PaitentDisease = fever ],**

**[id = 102,Paitent name = bharath,PaitentDisease = cold&cough ]] ]**

**Question 2**

**import** java.util.Date;

**public** **class** Productinfo {

**int** productid;

String productname;

Date mfd;

**int** quality;

**public** Productinfo(**int** productid, String productname, Date mfd, **int** quality) {

**this**.productid = productid;

**this**.productname = productname;

**this**.mfd = mfd;

**this**. quality = quality;

}

@Override

**public** String toString() {

**return** " productid=" + productid + ", productname=" + productname + ", mfd=" + mfd + ", quality="

+ quality + "]";

}

}

**import** java.util.Calendar;

**import** java.util.Set;

**import** java.util.TreeSet;

**public** **class** Productdrive {

**public** **static** **void** main(String[] args) {

Set<Productinfo> p1 = **new** TreeSet<>(**new** MynewComparator());

Productinfo i1 = **new** Productinfo(10124, "laptop", Calendar.*getInstance*().getTime(), 42);

Productinfo i2 = **new** Productinfo(963141, "harddisk", Calendar.*getInstance*().getTime(), 32);

p1.add(i1);

p1.add(i2);

System.***out***.println(p1);

}

}

**import** java.util.Comparator;

**public** **class** MynewComparator **implements** Comparator< Productinfo>{

@Override

**public** **int** compare(Productinfo i1, Productinfo i2 ) {

**return** (i2.quality)- (i1.quality);

}

}

**Output with quality**

[ productid=10124, productname=laptop, mfd=Sun Feb 11 16:53:24 CST 2018, quality=42], productid=963141, productname=harddisk, mfd=Sun Feb 11 16:53:24 CST 2018, quality=32]]

**Output with Product name**

**return** (i1.productname).compareTo (i2.productname);

[ productid=963141, productname=harddisk, mfd=Sun Feb 11 16:59:09 CST 2018, quality=32],

productid=10124, productname=laptop, mfd=Sun Feb 11 16:59:09 CST 2018, quality=42]]