```
day01
package day01;
public class Program01 {
public static void main(String[] args) {
 System.out.println("Hello");
}
day02
package day02;
public class Program01 {
public static void fun()
 int x=101234567;
 char y='a';
 boolean a=true;
 byte b=127;
 short c=32000;
 long d=1234567890l;
 double a1;
 a1=12345.4567d;
 float a2=23456.67f;
 System.out.println(a2);
 System.out.println(a1);
 System.out.println(d);
 System.out.println("Good Morning..!");
 System.out.println(x*x);
public static void main(String[] args) {
 System.out.println("Good");
 System.out.println(" day");
 fun();
package day02;
public class Program02{
public static int fun()
 int x=10;
 System.out.println(x*x);
 return x*x;
```

```
public static void main(String[] args) {
 long a=fun();//64,32//100.0
 System.out.println(a+a);//200.0
day03
package day03.test01;
public class Program01 {
public void addMethod(int a,int b)
 System.out.println(a+b);
public static void subMethod(int a,int b)
 System.out.println(a-b);
public static void mulMethod(int a,int b)
 System.out.println(a*b);
package day03.test01;
public class Program02 extends Program01{
//Program01- super class(parent)
//Program02- sub class(child)
public static void main(String[] args) {
 Program02 xyz= new Program02();
 xyz.addMethod(10, 20);
 subMethod(20, 10);
 mulMethod(20, 30);
}
          *******
package day03;
public class Program01 {
public static void main(String[] args) {
 cal(10,20);
 System.out.println("###########");
 cal(30,50);
```

}

```
public static void cal(int a,int b)
 System.out.println(a+b);
 System.out.println(a-b);
 System.out.println(a*b);
package day03;
public class Program02 {
public static void main(String[] args) {
 Program02 xyz= new Program02();
 addMethod(20,30);
 xyz.subMethod(10, 5);
 xyz.mulMethod(10, 10);
 addMethod(120,230);
 xyz.subMethod(110, 15);
 xyz.mulMethod(10, 6);
}
public static void addMethod(int a,int b)
 System.out.println(a+b);
public void subMethod(int a,int b)
 System.out.println(a-b);
public void mulMethod(int a,int b)
 System.out.println(a*b);
Day04
package day04.test01;
public class Program01 {
public static void addMethod(int a,int b)
 System.out.println(a+b);
private static void subMethod(int a,int b)
 System.out.println(a-b);
```

```
protected static void mulMethod(int a,int b)
 System.out.println(a*b);
static void sqrtMethod(int a)
 System.out.println(a*a);
public void addMethodNonStatic(int a,int b)
 System.out.println(a+b);
private void subMethodNonStatic(int a,int b)
 System.out.println(a-b);
protected void mulMethodNonStatic(int a,int b)
 System.out.println(a*b);
void sqrtMethodNonStatic(int a)
 System.out.println(a*a);
public static void main(String[] args) {
 addMethod(10, 10);
 subMethod(20, 10);
 mulMethod(3, 2);
 sqrtMethod(10);
 Program01 x= new Program01();
 x.addMethodNonStatic(100, 10);
 x.subMethodNonStatic(20, 5);
 x.mulMethodNonStatic(30, 20);
 x.sqrtMethodNonStatic(4);
}
package day04.test01;
public class Program02 extends Program01{
public static void main(String[] args) {
 addMethod(10, 10);
 //subMethod(20, 10); //It's Private Method-not visible
 mulMethod(3, 2);
 sqrtMethod(10);
 Program01 x= new Program01();
 x.addMethodNonStatic(100, 10);
 //x.subMethodNonStatic(20, 5); //It's Private Method-not visible
 x.mulMethodNonStatic(30, 20);
 x.sqrtMethodNonStatic(4);
```

```
package day04.test02;
import day04.test01.Program01;
public class Program03 extends Program01{
public static void main(String[] args) {
 addMethod(10, 10);
 //subMethod(20, 10); //It's Private Method-not visible
 mulMethod(3, 2);
 //sqrtMethod(10); //It's default Method-not visible
 Program03 x= new Program03();//current class object
 x.addMethodNonStatic(100, 10);
 //x.subMethodNonStatic(20, 5); //It's Private Method-not visible
 x.mulMethodNonStatic(30, 20);
 //x.sqrtMethodNonStatic(4); //It's default Method-not visible
}
package day04.test02;
import day04.test01.Program01;
public class Program04 {
public static void main(String[] args) {
 Program01 x= new Program01();
 x.addMethodNonStatic(10, 20);
 //x.mulMethodNonStatic(30, 20); //It's protected Method-not visible
        ****************
Day05
package day05.test01;
public class Program01 {
public static void main(String[] args) {
 add(10,20);
 add(1.1,2.2);
 add(1,2,3);
 System.out.println(main(1,2));
 main();
public static int main(int a, int b)
 return a+b;
public static void main()
```

```
System.out.println("Good Day..!");
public static void add(int a,int b)
 System.out.println(a+b);
public static void add(double a,double b)
 System.out.println(a+b);
public static void add(int a,int b,int c)
 System.out.println(a+b+c);
package day05.test01;
public class Program02 {
public void add(int a, int b)
 System.out.println(a+b);
package day05.test01;
public class Program03 extends Program02 {
public static void main(String[] args) {
 Program03 x= new Program03();
 x.add(10, 20);
 @Override
public void add(int a,int b)
 System.out.println((a*a)+(b*b));
package day05.test02;
public class Program01{
public static void display1()
 System.out.println("Good Morning..!");
```

```
}
public void display1NonStatic()
 System.out.println("Good Morning..!");
package day05.test02;
public class Program02 extends Program01{
public static void display2()
 System.out.println("Good Day..!");
public void display2NonStatic()
 System.out.println("Good Day..!");
package day05.test02;
public class Program03 extends Program02 {
public static void main(String[] args) {
 display1();
 display2();
 Program03 x= new Program03();
 x.display1NonStatic();//Program01-class
 x.display2NonStatic();//Program02-class
Day06
package day06;
import java.util.Scanner;
public class Program01 {
public static void main(String[] args) {
 // + - */(Q) %(R) Numbers
 Scanner x= new Scanner(System.in);
 System.out.println("Enter Int Value of a:- ");
 int a=x.nextInt();
 System.out.println("Enter Int Value of b:- ");
 int b=x.nextInt();
 System.out.println("Enter Double Value of c:- ");
 double c=x.nextDouble();
 x.close();
```

```
// int () int--->int
 //int () double/float---> double/float
 System.out.println(a+b);
 System.out.println(a+c);
 System.out.println(a-b);
 System.out.println(a-c);
 System.out.println(a*b);
 System.out.println(a*c);
 System.out.println(a/b);
 System.out.println(a/c);
 System.out.println(a%b);
 System.out.println(a%c);
}
package day06;
public class Program02 {
public static void main(String[] args) {
 // < > <= >= == != --->true/false
 int a=10;
 int b=20:
 double c=20.0;
 System.out.println(a>b);//f
 System.out.println(b>a);//t
 System.out.println(a<b);//t
 System.out.println(b<a);//f
 System.out.println(a>=b);//f
 System.out.println(b>=a);//t
 System.out.println(a<=b);//t
 System.out.println(b<=c);//t
 System.out.println(a==b);//f
 System.out.println(b!=a);//t
 System.out.println(b==c);//t
 System.out.println(b!=c);//f
}
package day06;
```

```
public class Program03 {
public static void main(String[] args) {
 // && || !
 int a=100;
 int b=20;
 int c=30:
 System.out.println((a>b) && (a>c));//t
 System.out.println((b>a) && (b>c));//f
 System.out.println((c>a) && (c>b));//f
 System.out.println("**********
 System.out.println((a>b) || (a>c));//t
 System.out.println((b>a) || (b>c));//f
 System.out.println((c>a) || (c>b));//t
 System.out.println("***************);
 System.out.println(!(a>b));//f
 System.out.println(!(b>c));//t
Day07
package day07;
public class Program01 {
public static void main(String[] args) {
 int a=10;
 int b=20;
 System.out.println("Start Program...!");
 if(a>b)
  System.out.println("Good Day..!");
  System.out.println("Good Morning..!");
 System.out.println("End Program...!");
}
package day07;
public class Program02 {
public static void main(String[] args) {
 int a=100;
 int b=20;
 System.out.println("Start Program...!");
 if(a>b)
```

```
System.out.println("a is greater..!");
 else
  System.out.println("b is greater..!");
 System.out.println("End Program...!");
}
package day07;
import java.util.Scanner;
public class Program03 {
public static void main(String[] args) {
 Scanner x= new Scanner(System.in);
 System.out.println("Enter the Number:- ");
 int a=x.nextInt();
 x.close();
 System.out.println("Start Program...!");
 if(a\%2==0)
  System.out.println("a is even..!");
 }
 else
  System.out.println("a is odd..!");
 System.out.println("End Program...!");
}
package day07;
public class Program04 {
public static void main(String[] args) {
 int a=100;
 int b=100;
 System.out.println("Start Program...!");
 if(a>b)
  System.out.println("a is greater..!");
```

```
else if(a<b)
  System.out.println("b is greater..!");
 else
 System.out.println("a & b are equal..!");
 System.out.println("End Program...!");
}
Day08
package day08;
public class Program01 {
public static void main(String[] args) {
 int a=90;
 int b=10;
 int c=100;
 if(a>=b \&\& a>=c)
 if(a==b \&\& a==c)
  System.out.println("a,b, & c are equal");
  else if(a==b \&\& a>c)
  System.out.println("a &b are equal and greater than c");
  else if(a==c \&\& a>b)
  System.out.println("a &c are equal and greater than b");
  else if(b>c)
  System.out.println("a is greater than b and b is greater than c");
  else if(c>b)
  System.out.println("a is greater than c and c is greater than b");
  else
  System.out.println("a is greater than b & c, b &c are equal");
```

```
}
 else if(b>=a && b>=c)
 if(b==c)
  System.out.println("b & c are equal and greater than a");
 else if(a>c)
  System.out.println("b is greater than a and a is greater than c");
  else if(c>a)
  System.out.println("b is greater than c and c is greater than a");
 else
  System.out.println("b is greater than a and c, a & c are equal");
 else
 if(a>b)
  System.out.println("c is greater than a and a is greater than b");
 else if(b>a)
  System.out.println("c is greater than b and b is greater than a");
 }
 else
  System.out.println("c is greater than a and b, a & b are equal");
}
Day09
package day09;
```

```
public class Program01 {
public static void main(String[] args) {
 System.out.println("Start Program..!");
 //1-5
 int a=1;
 while(a<=5)//1<=5 2<=5 3<=5 4<=5 5<=5
 System.out.println("Good Day..!");//1 2 3 4 5
 a=a+1;//2 3 4 5 6
 double b=0.5;
 while(b \ge 0.1)
 System.out.println("Good Morning..!");
 b=b-0.1;
 }
 int c=-11;
 while(c > = -15)
 System.out.println("@@@@@@");
 c=c-1;
 System.out.println("End Program..!");
}
Day10
package day10;
public class Program01 {
public static void main(String[] args) {
 int a=1;
 do
 System.out.println("Good Day..!");//1 2 3 4 5
 a=a+1;
 }while(a<=5);//2 3 4 5 6
 System.out.println("$$$$$$$$$$$$$$;");
 int b=5;
 do
 System.out.println("Good Day..!");
 b=b-1;
 while(b>=1);
```

```
}
}
package day10;
public class Program02 {
public static void main(String[] args) {
 for(int a=1;a<=5;a=a+1)
 System.out.println("Good Day..!");
 for(int b=-1;b>=-5;b=b-1)
 System.out.println("Good Morning..!");
package day10;
public class Program03 {
public static void main(String[] args) {
 int table=6;
 System.out.println("----While Program----");
 int a=1;
 while(a <= 10)
 System.out.println(table+"x"+a+"="+table*a);
 a=a+1;
 }
 System.out.println("----Do- While Program----");
 int b=1;
  System.out.println(table+"x"+b+"="+table*b);
 b=b+1;
 }while(b<=10);
 System.out.println("----For Program----");
 for(int c=1;c<=10;c=c+1)
 System.out.println(table+"x"+c+"="+table*c);
}
package day10;
public class Program04 {
```

```
public static void main(String[] args) {
 int n=10;
 System.out.println("----While Program----");
 int a=1;
 int temp=1;
 while(a<=n)
 temp=temp*a;
  System.out.println(a+" "+temp);
 a=a+1;
 }
 System.out.println("----Do- While Program----");
 int b=1:
 temp=1;
 do
 temp=temp*b;
  System.out.println(b+" "+temp);
 b=b+1;
 }while(b<=n);</pre>
 System.out.println("----For Program----");
 temp=1;
 for(int c=1;c=c+1)
 temp=temp*c;
  System.out.println(c+" "+temp);
 }
}
DAY11
package day11;
public class Program01 {
public static void main(String[] args) {
 int a=1;
 //a++, ++a ---> a=a+1
 System.out.println(a);
 int b = a + + \frac{1}{a} = 2
 System.out.println(b+"
 int c=++a;//a=3,c=3
 System.out.println(c+" "+a);
 //a=3
 //a--,--a --->a=a-1
 int d=a--;//d=3,a=2
 System.out.println(d+"
                         "+a);
 int e=--a;//e=1,a=1
 System.out.println(e+" "+a);
```

```
}
package day11;
public class Program02 {
public static void main(String[] args) {
  1
  12
  123
  1234
  12345
  */
 for(int i=1;i<=1;i++)
  System.out.print(i);
 System.out.println();
 for(int i=1; i<=2; i++)
  System.out.print(i);
 System.out.println();
 for(int i=1; i<=3; i++)
  System.out.print(i);
 System.out.println();
 for(int i=1; i<=4; i++)
  System.out.print(i);
 System.out.println();
 for(int i=1; i<=5; i++)
  System.out.print(i);
 System.out.println();
package day11;
public class Program03 {
public static void main(String[] args) {
  1
  12
  123
  1234
```

```
12345
  12345
  1234
  123
  12
  1
  */
 for(int i=1;i<=5;i++)//1 2 3 4 5
 for(int j=1;j <= i;j++)
  System.out.print(j);
 System.out.println();
 for(int i=5;i>=1;i--)//5 4 3 2 1
 for(int j=1;j<=i;j++)
  System.out.print(j);
 System.out.println();
}
package day11;
public class Program04 {
public static void main(String[] args) {
 /*
  54321
  4321
  321
  21
  1
  21
  321
  4321
  54321
  */
 for(int i=5;i>=1;i--)// 5 4 3 2 1
 for(int j=i;j>=1;j--)
```

```
System.out.print(j);
 System.out.println();
 for(int i=1;i<=5;i++)// 1 2 3 4 5
 for(int j=i;j>=1;j--)
  System.out.print(j);
 System.out.println();
}
package day11;
public class Program05 {
public static void main(String[] args) {
 /*
 1
 22
 333
 4444
 55555
  55555
  4444
  333
  22
  1
  */
 for(int i=1; i<=5; i++)
 for(int j=1;j<=i;j++)
  System.out.print(i);
 System.out.println();
 }
 for(int i=5;i>=1;i--)
 for(int j=1;j<=i;j++)
```

```
System.out.print(i);
 System.out.println();
}
DAY12
package day12;
public class Program01 {
public static void main(String[] args) {
 for(int i=1;i<=5;i++)//i=5
  boolean x=true;
  for(int j=1;j<=i;j++)//j=1, j=2, j=3, j=4,j=5
  if(x)
   System.out.print(i+"\t");//5
   x=false;
  else
   System.out.print(i*i+"\t");// 25
   x=true;
  System.out.println();
package day12;
public class Program02 {
public static void main(String[] args) {
 for(int i=1; i<=5; i++)
 for(int j=1; j <= i; j++)//j=1, j=2, j=3, j=4, j=5
  if(j\%2==1)
```

```
System.out.print(i+"\t");
  else
   System.out.print(i*i+"\t");
  System.out.println();
package day12;
public class Program03 {
public static void main(String[] args) {
 for(int i=1;i<=5;i++)
 for(int j=1;j<=i;j++)
   System.out.print("*\t");
  System.out.println();
package day12;
public class Program04 {
public static void main(String[] args) {
 int temp=1;
 for(int i=1; i<=5; i++)
  for(int j=1;j<=i;j++)
   System.out.print(temp+"\t");
   temp++;
  System.out.println();
package day12;
public class Program05 {
```

```
public static void main(String[] args) {
 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377
 */
 int x=0;
 int y=1;
 for(int i=1;i<=15;i++)
  System.out.println(x);
  int z=x+y;
  x=y;
 y=z;
}
package day12;
public class Program06 {
public static void main(String[] args) {
 /*
 0
 11
 235
 8 13 21 34
 55 89 144 233 377
  */
 int x=0;
 int y=1;
 for(int i=1;i<=5;i++)
 for(int j=1;j<=i;j++)
  System.out.print(x+"\t");
  int z=x+y;
  x=y;
  y=z;
  System.out.println();
}
Day13
```

package day13;

```
public class Program01 {
public static void main(String[] args) {
 int[] x= new int[5];//0-4 index
 x[0] = 100;
 x[4] = 300;
 x[2] = 400;
 System.out.println(x[0]);//100
 System.out.println(x[1]);//0
 System.out.println(x.length);
 System.out.println("Index loop");
 for(int i=0;i<x.length;i++)
  System.out.println(x[i]);
 System.out.println("For- Each loop");
 for(int a:x)//100,0,400,0,300
  System.out.println(a);
 String[] name= { "abc", "bcd", "cde", "def"};
 System.out.println(name.length);
 System.out.println(name[0]);//abc
 name[0]="ABC";
 System.out.println(name[0]);
}
package day13;
public class Program02 {
public static void main(String[] args) {
 int[] x = \{10,1,20,23,45,65,78,92,100,2\};
 System.out.println("Even Numbers :- ");
 for(int i=0;i<x.length;i++)
 if(x[i]\%2==0)
  System.out.println(x[i]);
 System.out.println("Odd Numbers :- ");
 for(int y:x)
 if(y\%2==1)
  System.out.println(y);
```

```
}
package day13;
import java.util.Arrays;
public class Program03 {
public static void main(String[] args) {
 int[] x = \{10,1,20,23,45,65,78,92,100,2\};
 System.out.println(Arrays.toString(x));
 Arrays.sort(x);
 System.out.println(Arrays.toString(x));
 System.out.println("Copy Function");
 //int[y] = x
 int[] y=Arrays.copyOf(x, x.length);
 System.out.println(Arrays.toString(x));
 System.out.println(Arrays.toString(y));
 x[0]=111;
 System.out.println(Arrays.toString(x));
 System.out.println(Arrays.toString(y));
 System.out.println(x);
 System.out.println(y);
}
Day14
package day14;
public class Program01 {
public static void main(String[] args) {
 int[] x1 = \{10,1,20,23,45,65,78,92,100,2\};
 for(int x:x1)
 boolean a=true;
 for(int i=2;i< x;i++)
 if(x\%i==0)
  a=false;
  break;
 if(a)
  System.out.println(x);
```

```
package day14;
public class Program02 {
public static void main(String[] args) {
 int x1[]= {153, 370, 371, 507, 1634, 8208, 9476};
 for(int x:x1)
  String y = String.valueOf(x);
 int count = y.length();
  double z=0;
 for(int i=0;i<count;i++)</pre>
  z=Math.pow(Integer.parseInt(y.charAt(i)+""), count)+z;
 if(z==x)
  System.out.println("ArmStrong Number "+x);
DAY15
package day15;
import java.util.ArrayList;
import java.util.Arrays;
public class Program01 {
public static void main(String[] args) {
 ArrayList<Integer> x= new ArrayList<>();
 x.add(10);//0
 x.add(30);//1
 x.add(20);//2
 x.add(40);//3
 System.out.println(x);
 System.out.println(x.get(2));
 x.add(10);//4
 x.add(30);//5
 x.add(20);//6
 x.add(40);//7
 System.out.println(x);
 x.remove(7);
```

```
System.out.println(x);
 x.remove(6);
 System.out.println(x);
 x.remove(5);
 System.out.println(x);
 x.remove(4);
 System.out.println(x);
 System.out.println(x.size());
 System.out.println(x.get(0));
 x.remove(0);
 System.out.println(x.get(0));
 Integer[] y = \{30,50,60,10,70,90,80,30\};
 x.addAll(Arrays.asList(y));
 System.out.println(x);
 Integer[] z = \{30,90,66\};
 x.removeAll(Arrays.asList(z));
 System.out.println(x);
 System.out.println(x.contains(60));//true/false
 System.out.println(x.contains(600));
 Integer[] a1 = \{10,20,40\};
 System.out.println(x.containsAll(Arrays.asList(a1)));//true
 Integer[] a2 = \{10,20,30,40\};
 System.out.println(x.containsAll(Arrays.asList(a2)));//false
 System.out.println(x);
 //[20, 40, 50, 60, 10, 70, 80]
 x.add(2, 66);
 System.out.println(x);
 x.set(2, 666);
 System.out.println(x);
 System.out.println(x.isEmpty());//false
 x.clear();
 System.out.println(x);
 System.out.println(x.isEmpty());//true
}
package day15;
import java.util.*;
import java.util.Arrays;
public class Program02 {
public static void main(String[] args) {
```

```
HashSet<Integer> x= new HashSet<>();
x.add(10);
x.add(30);
x.add(20);
x.add(40);
System.out.println(x);
x.add(10);
x.add(30);
x.add(20);
x.add(40);
System.out.println(x);
x.remove(10);
System.out.println(x);
Integer[] y = \{30,50,60,10,70,90,80,30\};
x.addAll(Arrays.asList(y));
System.out.println(x);
Integer[] z = \{30,90,66\};
x.removeAll(Arrays.asList(z));
System.out.println(x);
System.out.println(x.contains(60));//true/false
System.out.println(x.contains(600));
Integer[] a1 = \{10, 20, 40\};
System.out.println(x.containsAll(Arrays.asList(a1)));//true
Integer[] a2 = \{10,20,30,40\};
System.out.println(x.containsAll(Arrays.asList(a2)));//false
System.out.println(x);
System.out.println(x.isEmpty());//false
x.clear();
System.out.println(x);
System.out.println(x.isEmpty());//true
```

}

}

```
Day16
package day16;
import java.util.Arrays;
import java.util.HashSet;
public class Program01 {
public static void main(String[] args) {
 HashSet<Integer> x= new HashSet<>();
 x.addAll(Arrays.asList(1,2,3,4));
 System.out.println(x);
 HashSet<Integer> y= new HashSet<>();
 y.addAll(Arrays.asList(3,4,5,6));
 System.out.println(y);
 HashSet<Integer> union= new HashSet<>(x);
 union.addAll(y);
 System.out.println(union);
 HashSet<Integer> intersection= new HashSet<>(x);
 intersection.retainAll(y);
 System.out.println(intersection);
 HashSet<Integer> xdiffy= new HashSet<>(x);
 xdiffy.removeAll(y);
 System.out.println(xdiffy);
 HashSet<Integer> ydiffx= new HashSet<>(y);
 ydiffx.removeAll(x);
 System.out.println(ydiffx);
}
package day16;
import java.util.HashMap;
import java.util.Map.Entry;
public class Program02 {
public static void main(String[] args) {
 HashMap<String,Integer> x= new HashMap<>();
 x.put("aa", 101);
 x.put("bb", 102);
 x.put("cc", 103);
 x.put("dd", 104);
 x.put("ee", 105);
 System.out.println(x);
```

```
System.out.println(x.keySet());
 System.out.println(x.values());
 System.out.println(x.entrySet());
 System.out.println(x.containsKey("bb"));
 System.out.println(x.containsValue(102));
 System.out.println(x.get("cc"));
 System.out.println(x.isEmpty());
 System.out.println(x.size());
 for(String keys:x.keySet())
  System.out.println(keys);
 for(Integer value:x.values())
 System.out.println(value);
 for(Entry<String, Integer> entry: x.entrySet())
 System.out.println(entry.getKey() +" "+entry.getValue());
 x.clear();
 System.out.println(x);
}
package day16;
import java.util.*;
import java.util.Map.Entry;
public class Program03 {
public static void main(String[] args) {
 Hashtable<String,Integer> x= new Hashtable<>();
 x.put("aa", 101);
 x.put("bb", 102);
 x.put("cc", 103);
 x.put("dd", 104);
 x.put("ee", 105);
 System.out.println(x);
```

```
System.out.println(x.keySet());
 System.out.println(x.values());
 System.out.println(x.entrySet());
 System.out.println(x.containsKey("bb"));
 System.out.println(x.containsValue(102));
 System.out.println(x.get("cc"));
 System.out.println(x.isEmpty());
 System.out.println(x.size());
 for(String keys:x.keySet())
 System.out.println(keys);
 for(Integer value:x.values())
 System.out.println(value);
 for(Entry<String, Integer> entry: x.entrySet())
 System.out.println(entry.getKey() +" "+entry.getValue());
 x.clear();
 System.out.println(x);
}
}
```