1.

package javaapplication15;

import java.io.\*;

import java.util.\*;

public class EvaluateTemperature{

public static void main(String[] args)

{

Scanner in=new Scanner(System.in);

int temp; temp=0;

String type;

System.out.println("Enter temp");

temp=in.nextInt();

System.out.println("Enter type");

type=in.next();

if(type.equals("F") || type.equals("f"))

{

temp=temp;

}

else

{

temp=(int) ((1.8\*temp)+32);

System.out.println(temp+" F");

}

if(temp<0)

System.out.println("Extremely cold");

else if(temp>=0 && temp<=32)

System.out.println("Very cold");

else if(temp>=33 && temp<=50)

System.out.println("cold");

else if(temp>=51 && temp<=70)

System.out.println("mild");

else if(temp>=71 && temp<=90)

System.out.println("Warm");

else if(temp>=91 && temp<=100)

System.out.println("Hot");

else

System.out.println("Very hot");

}

}

2.

import java.io.\*;

import java.util.\*;

public class Scores {

public static void main(String[] args)

{

Scanner in=new Scanner(System.in);

int n;

System.out.println("Enter number of students");

n=in.nextInt();

String[] person=new String[n];

System.out.println("Enter the names");

for(int i=0;i<n;i++)

{

System.out.println("Enter "+i);

person[i]=in.next();

}

int[][] scores=new int[10][5];

int k=5;

for(int i=0;i<10;i++)

{

for(int j=0;j<5;j++)

{

System.out.println("Enter scores "+i+"and "+j);

scores[i][j]=in.nextInt();

}

}

int[] temp=new int[10];

for(int i=0;i<scores.length;i++)

{

for(int j=0;j<scores[0].length;j++)

{

temp[i]+=scores[i][j];

System.out.print(scores[i][j]+" ");

}

System.out.print((double)temp[i]/k);

System.out.println();

}

for(int i=0;i<person.length;i++)

{

System.out.println(person[i]+" "+(double)temp[i]/k);

}

}

}

3.

public class Square {

int l;

Square()

{

l=1;

}

Square(int k)

{

l=k;

}

public int getArea()

{

return l\*l;

}

}

public class TestSquare {

public static void main(String[] args)

{

Square s=new Square();

Square s1=new Square(5);

System.out.println(s.getArea());

System.out.println(s1.getArea());

}

}

4.

package javaapplication15;

public class MyFour <T>{

private T t;

private T field1,field2,field3,field4;

MyFour(T f1,T f2,T f3,T f4)

{

field1=f1;

field2=f2;

field3=f3;

field4=f4;

}

public boolean allEqual()

{

if(field1.equals(field2) && field2.equals(field3) && field3.equals(field4) )

{

return true;

}

else

{

return false;

}

}

public String toString()

{

return "(" + field1+","+ field2+","+field3+","+ field4+ ")";

}

public void shiftLeft()

{

int a[]=new int[4];

a[0]=(Integer)field1;

a[1]=(Integer)field2;

a[2]=(Integer)field3;

a[3]=(Integer)field4;

System.out.println("length"+a.length);

int temp=a[0];

for(int i=0;i<a.length-1;i++)

{

a[i]=a[i+1];

}

a[a.length-1]=temp;

for(int i=0;i<a.length;i++)

System.out.print(a[i]+" ");

System.out.println();

}

public static void main(String[] args) throws Exception

{

MyFour<String> p = new MyFour<String>("60","20","20","20");

System.out.println(p);

System.out.println( p.allEqual());

System.out.println(p.toString());

MyFour<Integer> p1 = new MyFour<Integer>(1,2,3,4);

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

p1.shiftLeft();

}

}