1.42 what are syntax errors (compile errors ) ,runtime errors ,and logic errors?

翻译：什么是语法错误（编译错误）、运行时错误以及逻辑错误？

答：1.在编译过程中出现的错误称为语法错误，语法错误是由创建代码时的错误引起2. 运行时错误是引起程序非正常中断的错误3. 当程序没有按预期的方式执行时就会发生逻辑错误

1.43 Give examples of synatax errors,runtime errors,and logic errors.

翻译：给出语法错误，运行时错误以及逻辑错误的事例。

答：语法错误：少写一个括号，使用了中文标点；运行时错误：0做除数

1.44 If you forget to put a closing quotation mark on a string, what kind errors will be raised?

翻译：如果你忘记为字符串加引号了，将会产生哪类错位？

答：语法错误

1.45 If you program needs to read integers, but the user entered strings, an error would occur

when running this program. What kind of errors is this?

翻译：如果程序需要读取整数，而用户输入了字符串，运行该程序时将产生什么错误？这是哪类错误？

答：运行时错误

1.46 Suppose you write a program for computing the perimeter of a rectangle and you mistakenly write your program so that it computes the area of a rectangle. What kind of error is this?

假设编写一个计算矩形周长的程序,但是错误地写成了计算矩形面积的程序。这属于哪类错误?

答：逻辑错误

1.47 Identify and fix the errors in the following code:

指出和修改下面代码中的错误:

public class Welcome {

public void Main(String[] args) {

System. out . println('Welcome to Java!);

}

}

答：

public class Welcome {

//mian方法为静态方法，并且都为小写

public static void main(String[] args) {

//字符串要用双引号表示

System. out . println(“Welcome to Java!”);

}

}

\*1.1 1 (Population projection) The U.S. Census Bureau projects population based on the

following assumptions:

■One birth every 7 seconds

■One death every 13 seconds

■One new immigrant every 45 seconds

Write a program to display the population for each of the next five years. Assume the

current population is 312,032,486 and one year has 365 days. Hint: In Java, if two

integers perform division, the result is an integer. The fractional part is truncated. For

example, 5/4is 1 (not 1.25) and 10/4 is 2 (not 2.5). To get an accurate result with

the fractional part, one of the values involved in the division must be a number with a

decimal point. For example, 5.014 is 1.25 and 1014.0is2.5.

(人口估算)美国人口调查局基于以下假设进行人口估算:

■每7秒有一个人诞生

■每13秒有一个人死亡

■每45秒有一个移民迁人

编写一个程序，显示未来5年的每年的人口数。假设当前的人口是312032 486.每年有365天。提示: Java中，两个整数相除，结果还是整数，小数部分被去掉。例如，5/4 等于1 (而不是1.25)，10/4 等于2 (而不是2.5)。如果想得到有小数部分的精确结果，进行除法运算的两个值之一必须是-一个具有小数点的数值。例如，5.0/4 等于1.25, 10/4.0 等于2.5。

答：

public class Demo {

public static void main(String[] args) {

long peopleNumbers = 312032486;

long oneYearSeconds = 365 \* 24 \* 60 \* 60;

double oneYearNew = oneYearSeconds / 7.00 + oneYearSeconds / 13.00

+ oneYearSeconds / 45.00;

for (int i = 1; i <= 5; i++) {

//peopleNumbers += oneYearNew;

//System.out.println("第" + i + "年的人数为：" + peopleNumbers);

System.out.printf("第%d年的人

数为：%.2f\n",i,peopleNumbers+i\*oneYearNew);

}

}

}