Assignment 1   CS1400 Summer 2011

Create a project called **A1_CS1400** with a java file called **A1.java**.
A1.java needs to include a main method as entry point for the program. For help on how to create a project in jGRASP refer to the handout I passed out in class.

On top of the source code file include a comment with your name, course number, and assignment number

Example:

```
/*********************************************************
*    Name: Margret Posch
*    Course: CS1400
*    Assignment: A1
*********************************************************/
```

What you need to do:

 Inside the body of the main method write the appropriate code to isolate the individual digits of a 5-digit integer. Then print them out separated by spaces and in the same order as entered.
In this exercise you'll gather input from the user (a single integer). The user needs to know what is expected of him/her. Make sure you prompt the user for a number that is 5-digits long.
No input validation is needed. You may assume that the user enters a non-negative 5 digit number.

Hint:
You can isolate the digits of a number by using integer division and modulus
Here is an example how you can isolate the individual digits of a 3-digit number:

```
int firstDigit = number / 100;
int secondDigit = number / 10 % 10;
int thirdDigit = number % 10;
```

Sample output:

```
Please enter a number between 10000 and 99999: 42339
4    2    3    3    9
```

Zip up your project (the directory containing the source code and the project file) and rename the file
A1_*YourName*.zip , where you substitute your first and last name for *YourName* . Turn it in via Virtual Campus.

Maximum Points: 30 pts

2 pts for using the given file names and including a comment with your name etc. on top
4 pts for prompting the user with an appropriate message
8 pts for input and output
16 pts for separating the digits of the number read.