

Print Digits 2 English

In this program you will be taking numbers entered by the user and printing them out in English one digit at a time. Only one file is needed for this program:

PrintDigits2English.java

This file will require two methods and should only have two methods.

public static void main(String[] args)

In main() you need to set up a scanner(if you forgot how to use it, I have instructions at the end of the file) and continuously asking for user input. For each integer entered, you need to call the method

printDigits2Num(), which you need to implement on your own, to print the digit out in English. If the number is negative, you need to print out the word “Negative” before any of the digits. After you are done with the current number, you need to ask for another input and do the same thing. For the purpose of this program, you only need to ask for five inputs(loop would help), and you can assume the inputs will all be valid integers(don’t need to worry about possible crazy inputs).

```
private static void printDigits2Num( int num );
```

In printDigits2Num, you take in an integer(num) and print the digits out in english. You will need to use one operator(divide) to get the value of the last digit of the number, and another operator(mod) to get rid of the last digit (ASK ME if you cannot figure it out after a long time). Use the String array I provided to conveniently access the corresponding english word for each digit.

This method does not return anything.

Sample Runs(Your program should work exactly like this)

User inputs are underlined, READ CAREFULLY

You can still enter 5 integers.

Please enter an integer: 5

5 in English: Five.

You can still enter 4 integers.

Please enter an integer: 3094

3094 in English: Three Zero Nine Four.

You can still enter 3 integers.

Please enter an integer: -123

-123 in English: Negative One Two Three.

You can still enter 2 integers.

Please enter an integer: 0079

79 in English: Seventy Nine.

You can still enter 1 integer.

Please enter an integer: -7

-7 in English: Negative Seven.

How to Use Scanner

1. Import the necessary library to use scanner(at the very top of the program file)
 - `import java.util.*;`
2. Create a scanner object (name could be anything, I use “kb”, stands for keyboard, in this case)
 - `Scanner kb = new Scanner(System.in);`
3. Use the “kb” we just created to get the input and store it in a variable
 - `int value = kb.nextInt();`
4. Done! Now “value” contains the integer the user entered on the console.
5. Ask me if you have further questions.