ReflectionLog: Digits

Youdis

```java
package Mastery;

import java.util.Scanner;

public class digitsV2 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        //Getting ready to record user inputs
        Scanner input = new Scanner(System.in);
        //Declaration of variables
        int entNum, baseHundred, baseTen, baseOne;
```

I first get ready to intake users input by setting up scanner and declare the needed variables.

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        // TODO Auto-generated method stub
        //Getting ready to record user inputs
        Scanner input = new Scanner(System.in);
        //Declaration of variables
        int entNum, baseHundred, baseTen, baseOne;



        //prompt user to enter 3 digit number
        System.out.print("Please enter a 3 digit number: ");
        //Recording userinput into entNum by declaring the value into it
        entNum = input.nextInt();
```

I then prompt the user to input a three digit number and store it in the entNum variable which I declared beforehand.

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public class digitsV2 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        //Getting ready to record user inputs
        Scanner input = new Scanner(System.in);
        //Declaration of variables
        int entNum, baseHundred, baseTen, baseOne;



        //prompt user to enter 3 digit number
        System.out.print("Please enter a 3 digit number: ");
        //Recording userinput into entNum by declaring the value into it
        entNum = input.nextInt();




        //Declaring values of baseHundred, baseTen, and baseOne by finding out bases of entNum
        baseHundred = entNum / 100;
        baseTen = (entNum - (baseHundred*100)) / 10;
        baseOne = entNum % 10;
```

I used integer division with entNum to get the baseHundred, I get the baseTen by subtracting the base hundred variable times 3 from entNum which is then integer divided by 10, and I get the baseOne by modulus dividing the entNum by 10.

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        //Declaration of variables
        int entNum, baseHundred, baseTen, baseOne;



        //prompt user to enter 3 digit number
        System.out.print("Please enter a 3 digit number: ");
        //Recording userinput into entNum by declaring the value into it
        entNum = input.nextInt();



        //Declaring values of baseHundred, baseTen, and baseOne by finding out bases of entNum
        baseHundred = entNum / 100;
        baseTen = (entNum - (baseHundred*100)) / 10;
        baseOne = entNum % 10;


        // output the bases of the number the user entered
        System.out.println("Your base hundred is: " + baseHundred);
        System.out.println("Your base ten is: " + baseTen);
        System.out.println("Your base one is: " + baseOne);
    }

}
```

I output the number I just calculated for by outputting the variables I stored them with and writing a message next to each one to indicate to the user which one is base hundred, ten and one.