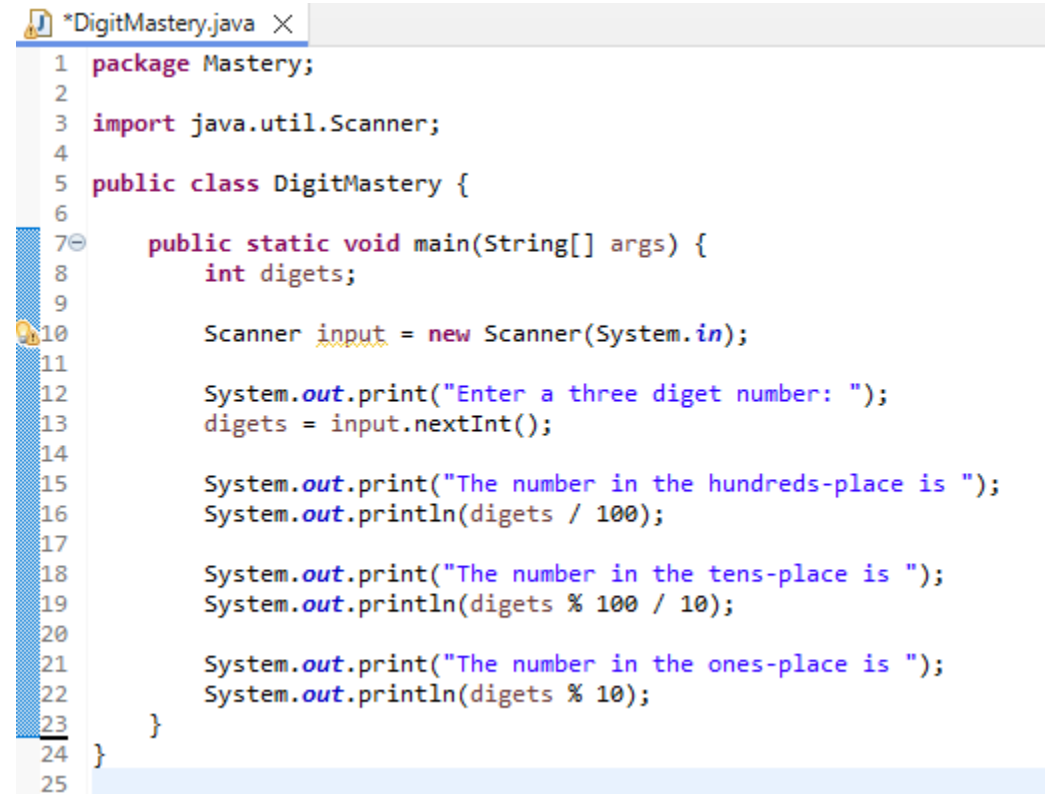


Digits:

I simply copied and pasted the code for the digits skill builder and modified it so that it has three digits instead of 2. I figured out how to do this by simply dividing by 100 for the hundreds place then modulus by 100 and dividing by 10 for the tens place.

Code:



```
1 package Mastery;
2
3 import java.util.Scanner;
4
5 public class DigitMastery {
6
7     public static void main(String[] args) {
8         int digets;
9
10        Scanner input = new Scanner(System.in);
11
12        System.out.print("Enter a three diget number: ");
13        digets = input.nextInt();
14
15        System.out.print("The number in the hundreds-place is ");
16        System.out.println(digets / 100);
17
18        System.out.print("The number in the tens-place is ");
19        System.out.println(digets % 100 / 10);
20
21        System.out.print("The number in the ones-place is ");
22        System.out.println(digets % 10);
23    }
24 }
25
```

Output:

```
Enter a three diget number: 512
The number in the hundreds-place is 5
The number in the tens-place is 1
The number in the ones-place is 2
```

I encountered no errors in this assignment.

Project:

Doing this assignment was fairly easy, however there were some new things I had to learn such as the rounding function. I also had to space out the output correctly so that it would all line up.

Code:

```

1 package Mastery;
2
3 import java.util.Scanner;
4
5 public class Project {
6
7     public static void main(String[] args) {
8         double designing = 0;
9         double coding = 0;
10        double debugging = 0;
11        double testing = 0;
12        Scanner input = new Scanner(System.in);
13
14        System.out.print("Designing: ");
15        designing = input.nextInt();
16
17        System.out.print("Coding: ");
18        coding = input.nextInt();
19
20        System.out.print("Debugging: ");
21        debugging = input.nextInt();
22
23        System.out.print("Testing: ");
24        testing = input.nextInt();
25
26        System.out.println("");
27        System.out.println("Task           % Time");
28        double total = designing + coding + debugging + testing;
29
30        designing = (designing / total * 100);
31        designing = Math.round(designing * 100);
32        designing = designing/100;
33        System.out.println("Designing      " + designing + " %");
34
35        coding = (coding / total * 100);
36        coding = Math.round(coding * 100);
37        coding = coding/100;
38        System.out.println("Coding         " + coding + " %");
39
40        debugging = (debugging / total * 100);
41        debugging = Math.round(debugging * 100);
42        debugging = debugging/100;
43        System.out.println("Debugging      " + debugging + " %");
44
45        testing = (testing / total * 100);
46        testing = Math.round(testing * 100);
47        testing = testing/100;
48        System.out.println("Testing        " + testing + " %");
49    }
50
51 }
52

```

Output:

```

Designing: 120
Coding: 240
Debugging: 30
Testing: 30

```

Task	% Time
Designing	28.57 %
Coding	57.14 %
Debugging	7.14 %
Testing	7.14 %

Election:

This assignment is fairly similar to the last one and was rather straightforward. There is a thing regarding how the code is aligned which is pretty weird but I think I'll learn how to do that later on.

Code:

```
public class Election {

    public static void main(String[] args) {
        int AwbreyNY = 0;
        int MartinezNY = 0;
        int AwbreyNJ = 0;
        int MartinezNJ = 0;
        int AwbreyCT = 0;
        int MartinezCT = 0;
        Scanner input = new Scanner(System.in);

        System.out.println("Election Results for New York: ");
        System.out.print("Awbrey: ");
        AwbreyNY = input.nextInt();
        System.out.print("Martinez: ");
        MartinezNY = input.nextInt();

        System.out.println("");

        System.out.println("Election Results for New Jersey: ");
        System.out.print("Awbrey: ");
        AwbreyNJ = input.nextInt();
        System.out.print("Martinez: ");
        MartinezNJ = input.nextInt();

        System.out.println("");

        System.out.println("Election Results for Connecticut: ");
        System.out.print("Awbrey: ");
        AwbreyCT = input.nextInt();
        System.out.print("Martinez: ");
        MartinezCT = input.nextInt();

        System.out.println("");

        int AwbreyTotal = AwbreyNY + AwbreyNJ + AwbreyCT;
        int MartinezTotal = MartinezNY + MartinezNJ + MartinezCT;
        double TotalVotes = MartinezTotal + AwbreyTotal;
        double AwbreyPercent = AwbreyTotal / TotalVotes * 100;
        double MartinezPercent = MartinezTotal / TotalVotes * 100;

        AwbreyPercent = Math.round(AwbreyPercent * 100);
        AwbreyPercent = AwbreyPercent/100;
        MartinezPercent = Math.round(MartinezPercent * 100);
        MartinezPercent = MartinezPercent/100;
        int totalint = MartinezTotal + AwbreyTotal;

        System.out.println("Candidate      Votes Percentage");
        System.out.println("Awbrey          " + AwbreyTotal + "      " + AwbreyPercent + (" %"));
        System.out.println("Martinez        " + MartinezTotal + "      " + MartinezPercent + (" %"));
        System.out.println("TOTAL VOTES:    " + totalint);
    }
}
```

Output:

Election Results for New York:

Awbrey: 23

Martinez: 34

Election Results for New Jersey:

Awbrey: 4

Martinez: 556

Election Results for Connecticut:

Awbrey: 67

Martinez: 8

Candidate	Votes	Percentage
Awbrey	94	13.58 %
Martinez	598	86.42 %
TOTAL VOTES:	692	