

```
A.java TaylorSeriesPi.java
1 // Joseph J. Wunderlich
2 // CS121A - Project 2.13
3 // Jan. 29, 2016
4
5 import java.util.Scanner; //imports scanner utility from the installed java library
6 public class A {
7     public static void main(String[] args) {
8         int a, b, c, d; //The representative integers
9
10        System.out.println("Enter three numbers to calculate their sum of their digits."); //Terminal message 1
11        System.out.println("--NOTICE-- Make sure to hit enter after each number."); //Terminal message 2
12
13        Scanner in = new Scanner(System.in); //Creates a new scanner to accept user-entered text
14
15        a = in.nextInt(); // First number entered
16        b = in.nextInt(); // Second number entered
17        c = in.nextInt(); // Third number entered
18        d = a + b + c; //Equation that adds a, b, and c
19
20        System.out.println("The sum of these numbers is "+d); //d is the sum
21    }
22 }
```

Problems @ Javadoc Declaration Console

<terminated> A [Java Application] C:\Program Files\Java\jre1.8.0\_71\bin\javaw.exe (Jan 29, 2016, 6:47:23 PM)

```
Enter three numbers to calculate their sum of their digits.
--NOTICE-- Make sure to hit enter after each number.
6
128
19
The sum of these numbers is 153|
```

```
*MyWin.java *A.java A.java
1 // Joseph J. Wunderlich
2 // CS121A - Project 2.14
3 // Jan. 29, 2016
4
5 import java.util.Scanner; //imports scanner utility from the installed java library
6 public class A {
7     public static void main(String[] args) {
8         int a, b, c, d; //The representative integers
9         double e;
10        System.out.println("Enter three numbers to calculate the average of their digits."); //Terminal message 1
11        System.out.println("--NOTICE-- Make sure to hit enter after each number."); //Terminal message 2
12
13        Scanner in = new Scanner(System.in); //Creates a new scanner to accept user-entered text
14
15        a = in.nextInt(); // First number entered
16        b = in.nextInt(); // Second number entered
17        c = in.nextInt(); // Third number entered
18        d = a + b + c; //Equation that adds a, b, and c
19        e = 3.0;
20
21        System.out.println("The average of these numbers is "+d/3.0); //d is the average
22    }
23 }
```

Problems Javadoc Declaration Console

<terminated> A (1) [Java Application] C:\Program Files\Java\jre1.8.0\_71\bin\javaw.exe (Jan 29, 2016, 7:42:57 PM)

```
Enter three numbers to calculate the average of their digits.
--NOTICE-- Make sure to hit enter after each number.
3
1
37
The average of these numbers is 13.666666666666666
```

```
A.java *A.java
1 // Joseph J. Wunderlich
2 // CS121A - Project 2.15
3 // Jan. 29, 2016
4
5 import javax.swing.*; //imports java window from installed java library
6 import java.util.*;
7 public class A {
8     public static void main(String[] args) {
9         int a, b, c, d; //The representative integers
10        double e; //the number of numbers
11        System.out.println("Enter three numbers to calculate the average of their digits."); //Terminal message 1
12        System.out.println("--NOTICE-- Make sure to hit enter after each number."); //Terminal message 2
13
14        Scanner in = new Scanner(System.in); //Creates a new scanner to accept user-entered text
15
16        a = in.nextInt(); // First number entered
17        b = in.nextInt(); // Second number entered
18        c = in.nextInt(); // Third number entered
19        d = a + b + c; //Equasion that adds a, b, and c
20        e = 3.0;
21
22        JOptionPane.showMessageDialog(null, "The average of these numbers is " +d/3.0); //displays result in new window
23    }
24 }
```

Problems @ Javadoc Declaration Console

A (2) [Java Application] C:\Program Files\Java\jre1.8.0\_71\bin\javaw.exe (Jan 31, 2016, 1:30:43 PM)

```
Enter three numbers to calculate the average of their digits.
--NOTICE-- Make sure to hit enter after each number.
5
2
67
```

Message

The average of these numbers is 24.666666666666668

OK

A.java

```
1 // Joseph J. Wunderlich
2 // CS121A - Project 2.18
3 // Jan. 29, 2016
4
5 import java.util.*;
6
7 public class A {
8     public static void main(String[] args) {
9         Scanner in = new Scanner(System.in);
10        double speed, time; //variables speed and time of object
11        double distance; //variable representing distance
12
13        System.out.println("--NOTICE-- Make sure to hit enter after each number.");
14        System.out.print("Enter the speed (mph): ");
15        speed = in.nextDouble();
16        System.out.print("Enter the time (minutes): ");
17        time = in.nextDouble();
18
19        distance = speed*time; //Equasion that calculates the distance
20        distance = distance/60; //Converts hour to minutes
21
22        System.out.print("Distance traveled: ");
23        System.out.print( distance );
24        System.out.print(" miles. ");
25    }
```

Problems @ Javadoc Declaration Console

<terminated> A (3) [Java Application] C:\Program Files\Java\jre1.8.0\_71\bin\javaw.exe (Feb 1, 2016, 11:56:39 AM)

```
--NOTICE-- Make sure to hit enter after each number.
Enter the speed (mph): 9
Enter the time (minutes): 90
Distance traveled: 13.5 miles.
```

```
A.java A.java
2 // CS121A - Project 2.20
3 // Jan. 29, 2016
4
5 import java.util.*; // Imports all java utilities from library
6 import java.lang.Math.*; // Imports all java math from library
7
8 public class A {
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         Double a, b, c; //the three legs of our triangle
12         System.out.println("--NOTICE-- Make sure to hit enter after each number.");
13         System.out.print("Enter the length of the vertical side of a right triangle (a) : ");
14         a = in.nextDouble();
15         System.out.print("Enter the length of the horizontal side of a right triangle (b): ");
16         b = in.nextDouble();
17
18         c = Math.sqrt(Math.pow(a, 2) + Math.pow(b, 2)); //Finds square root (side c) of a^2 + b^2
19
20         System.out.print("Length of the hypotenuse (c) is: ");
21         System.out.print(c);
22     }
23 }
24
25
26
27
```

Problems @ Javadoc Declaration Console

```
<terminated> A (4) [Java Application] C:\Program Files\Java\jre1.8.0_71\bin\javaw.exe (Feb 1, 2016, 12:30:27 PM)
--NOTICE-- Make sure to hit enter after each number.
Enter the length of the vertical side of a right triangle (a) : 5
Enter the length of the horizontal side of a right triangle (b): 6
Length of the hypotenuse (c) is: 7.810249675906654
```