

ErrorLog: MathTutor

Youdis

```
package mastery;

import java.util.Scanner;
import java.text.DecimalFormat;
public class mathTutor {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner Input = new Scanner(System.in);
        DecimalFormat formatter = new DecimalFormat("#.##");
        int randNum1 = (int)((10 - 1 + 1)*Math.random() + 1);
        int randNum2 = (int)((10 - 1 + 1)*Math.random() + 1);
        int randOpNum = (int)((4 - 1 + 1)*Math.random() + 1);

        double answer;
        double userAns;
        switch(randOpNum) {
            case 1: answer = randNum1 + randNum2;
                System.out.print("Whats is " + randNum1 + " + " + randNum2);
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
            case 2: answer = randNum1 - randNum2;
                System.out.print("Whats is " + randNum1 + " - " + randNum2);
                userAns = Input.nextInt();
```

```
<terminated> mathTutor [Java Application] C:\Program Files\Eclipse\eclipse\plugins\o
Whats is 8 + 3 11
correct|
```

Forgot Colon when asking for answer from user

```
import java.util.Scanner;
import java.text.DecimalFormat;
public class mathTutor {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner Input = new Scanner(System.in);
        DecimalFormat formatter = new DecimalFormat("#.##");
        int randNum1 = (int)((10 - 1 + 1)*Math.random() + 1);
        int randNum2 = (int)((10 - 1 + 1)*Math.random() + 1);
        int randOpNum = (int)((4 - 1 + 1)*Math.random() + 1);

        double answer;
        double userAns;
        switch(randOpNum) {
            case 1: answer = randNum1 + randNum2;
                System.out.print("Whats is " + randNum1 + " + " + randNum2 + ":");
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
            case 2: answer = randNum1 - randNum2;
                System.out.print("Whats is " + randNum1 + " - " + randNum2 + ":");
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
            case 3: answer = randNum1 * randNum2;
                System.out.print("Whats is " + randNum1 + " * " + randNum2 + ":");
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
            case 4: answer = randNum1 / randNum2;
                System.out.print("Whats is " + randNum1 + " / " + randNum2 + ":");
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
        }
    }
}
```

```
<terminated> mathTutor [Java Application] C:\Program Files\Eclipse\eclipse\plugins\org.ecli
Whats is 4 + 1: 5
correct
```

Added colon

```

1 package Mastery;
2
3 import java.util.Scanner;
4 import java.text.DecimalFormat;
5 public class mathTutor {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         Scanner Input = new Scanner(System.in);
10        DecimalFormat formatter = new DecimalFormat("#.##");
11        int randNum1 = (int)(((10 - 1 + 1)*Math.random()) + 1);
12        int randNum2 = (int)(((10 - 1 + 1)*Math.random()) + 1);
13        int randOpNum = (int)(((4 - 1 + 1)*Math.random()) + 1);
14
15        double answer;
16        double userAns;
17        switch(randOpNum) {
18            case 1: answer = randNum1 + randNum2;
19                System.out.print("Whats is " + randNum1 + " + " + randNum2 + ":");
20                userAns = Input.nextInt();
21                if (userAns == answer) {
22                    System.out.print("correct");}
23                else {
24                    System.out.print("Incorrect");}
25                break;
26            case 2: answer = randNum1 - randNum2;
27                System.out.print("Whats is " + randNum1 + " - " + randNum2 + ":");
28                userAns = Input.nextInt();
29                if (userAns == answer) {
30                    System.out.print("correct");}
31                else {
32                    System.out.print("Incorrect");}
33                break;
34            case 3: answer = randNum1 * randNum2;
35                System.out.print("Whats is " + randNum1 + " * " + randNum2 + ":");
36                userAns = Input.nextInt();
37                if (userAns == answer) {
38                    System.out.print("correct");}
39                else {
40                    System.out.print("Incorrect");}
41                break;
42            case 4: answer = (((Double.valueOf(randNum1) / Double.valueOf(randNum2))));
43                String formatAns = formatter.format(answer);
44                System.out.print("Whats is " + randNum1 + " / " + randNum2 + " Please answer to the hundreth place: ");
45                userAns = Input.nextInt();

```

```

<terminated> mathTutor [Java Application] C:\Program Files\Eclipse\eclipse\plugins\org.eclipse.justj.o
Whats is 6 / 10 Please answer to the hundreth place: 0.6
Exception in thread "main" java.util.InputMismatchException
    at java.base/java.util.Scanner.throwFor(Scanner.java:947)
    at java.base/java.util.Scanner.next(Scanner.java:1602)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2267)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2221)
    at Mastery.mathTutor.main(mathTutor.java:45)

```

Dividing part not working

```

import java.util.Scanner;
import java.text.DecimalFormat;
public class mathTutor {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner Input = new Scanner(System.in);
        DecimalFormat formatter = new DecimalFormat("#.##");
        int randNum1 = (int)((10 - 1 + 1)*Math.random() + 1);
        int randNum2 = (int)((10 - 1 + 1)*Math.random() + 1);
        int randOpNum = 4; //((int)((4 - 1 + 1)*Math.random() + 1);

        double answer;
        double userAns;
        switch(randOpNum) {
            case 1: answer = randNum1 + randNum2;
                System.out.print("Whats is " + randNum1 + " + " + randNum2 + ":");
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
            case 2: answer = randNum1 - randNum2;
                System.out.print("Whats is " + randNum1 + " - " + randNum2 + ":");
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
            case 3: answer = randNum1 * randNum2;
                System.out.print("Whats is " + randNum1 + " * " + randNum2 + ":");
                userAns = Input.nextInt();
                if (userAns == answer) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
                break;
            case 4: answer = (((Double.valueOf(randNum1) / Double.valueOf(randNum2))));
                String formatAns = formatter.format(answer);
                System.out.print("Whats is " + randNum1 + " / " + randNum2 + " Please answer to the hundreth place rounded: ");
                userAns = Input.nextDouble();
                String formattedUserAns = formatter.format(userAns);

                if (formattedUserAns.equals(formatAns)) {
                    System.out.print("correct");
                }
                else {
                    System.out.print("Incorrect");
                }
        }
    }
}

```

```

<terminated> mathTutor [Java Application] C:\Program Files\Eclipse\plugins\org.eclipse.j
Whats is 7 / 6 Please answer to the hundreth place rounded: 1.17
correct

```

Variable that recorded user input was an int not a double so changed that. Also used == for comparison of two strings instead of .equals