

Bug Logs

Credit name: Chapter

Assignment Name: Mastery - MathTutor

```
int firstNum = (int)(10 * Math.random()+1);
int secondNum = (int)(10 * Math.random()+1);

System.out.print("What operator do you wish to do (+-*/): ");
String operator = userInput.nextLine();

int question = 0;
if (operator == "*") {
    question = firstNum * secondNum;
}
else if (operator == "/") {
    question = firstNum / secondNum;
}
else if (operator == "+") {
    question = firstNum + secondNum;
}
else if (operator == "-") {
    question = firstNum - secondNum;
}

System.out.println("What is " + firstNum + " " + operator + " " + secondNum + " = ?");
System.out.print("Your answer: ");
int answer = userInput.nextInt();

if (answer == question ) {
    System.out.print("Congratulations");
}
else {
    System.out.print("Incorrect. Try again with another question");
}
```

With this error, the output of the “question” variable will always turn out with the answer of 0. To fix this, I’ve changed the generating operator system to use Math.random() into the switch operator and let the user freely choose the operator they want to do with. With this, I can more easily manage the user’s operator input in order to convert it into an equation and print it out to the screen.

```
int operator = userInput.nextInt();
String operator1 = " ";
switch (operator) {
    case 1:
        question = firstNum + secondNum;
        operator1 = "+";
        break;
    case 2:
        question = firstNum - secondNum;
        operator1 = "-";
        break;
    case 3:
        question = firstNum * secondNum;
        operator1 = "x";
        break;
    case 4:
        question = firstNum / secondNum;
        operator1 = "/";
        break;
}

System.out.println(" ");
System.out.println(" ");
System.out.println("What is " + firstNum + " " + operator1 + " " + secondNum + " = ?");
System.out.print("Your answer: ");
int answer = userInput.nextInt();
```