

Mastery Guessing Game Reflection Log

Credit Name: CSE2140 2nd Language Programming

Assignment Name: Mastery Guessing Game

How has your program changed from planning to coding to now? Please explain?

From planning to coding not much changed. I still prompted the user for a number and generated a random number to compare and see if the user's input was correct. The big difference was making the code more complex, and making a while loop.

From coding to now the changes I made were changing the wording in the print statement from enter to guess, and fixing an error in the code that I mentioned in my error log.

Steps

Start off with the standard code

```
package Mastery;
import java.text.DecimalFormat;
public class Geussinggame {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
```

Next I made an integer variable called randomnum and made it equal to a randomly generated number between 1 and 20.

```
int randomnum = (int)(20 * Math.random() + 1);
```

After I prompted the user to guess a number between 1 and 20.

```
System.out.println("Guess a number between 1 and 20: ");
```

I then made a variable called answer and made it equal to 0. This is important because since 0 isn't one of the randomly generated numbers it doesn't affect the while loop. (I go more in depth into this in my error log)

```
int answer = 0;
```

After this I created the while loop and made it's condition to run be that answer is not equal to randomnum

```
while (answer != randomnum) {
```

Next I redeclared the answer variable and this time made it equal to the user's input.

```
answer = input.nextInt();
```

I then made an if-else statement, if the user's input was equal to the random;y generated number then it would print the computer's number, the player's number, and

“You won!”. However, if it wasn’t equal to the random number (else) it would print the player’s number and “Try again: “ prompting the user for another guess.

```
if (answer == randomnum) {  
    System.out.println("Computer's Number: " + randomnum);  
    System.out.println("Player's Number: " + answer);  
    System.out.println("You won!");  
} else {  
    System.out.println("Player's Number: " + answer);  
    System.out.println("Try again: ");  
}
```

Lastly I finished the code of with braces

```
}  
}  
}  
}
```