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CSL-131

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Lab #5

4.

**public** **class** DiceMain {

**public** **static** **void** main(String[] args) {

Dice die1;

die1 = **new** Dice();

Dice die2;

die2 = **new** Dice();

**int** result1;

**int** result2;

result1 = die1.roll();

result2 = die2.roll();

**int** sum;

sum = result1 + result2;

System.***out***.println("First roll: " + result1);

System.***out***.println("Second roll: " + result2);

System.***out***.println("sum: " + sum);

}

}

6.

**import** java.util.Scanner; (At the top)

Scanner scnr = **new** Scanner(System.***in***);

System.***out***.println("Guess the result!!!");

**int** guess = scnr.nextInt();

System.***out***.println("First roll: " + result1);

System.***out***.println("Second roll: " + result2);

System.***out***.println("sum: " + sum);

**if** (sum == guess) {

System.***out***.println("You win!!! You are so intelligent!!!");

} **else** {

System.***out***.println("Horrible guess. The correct answer was " + sum + ", loser.");

}

I establish a scanner and ask the user to input their guess. If, and only if their guess matches the sum, will the “you win” message be displayed. If not, it displays the other message.

8.

**if** (sum > 7) {

System.***out***.println("You win!!!");

} **else** **if** (sum < 7) {

System.***out***.println("You lose!!!");

} **else** **if** (sum == 7) {

System.***out***.println("We tie!!!");

}

11.

**for** (**int** i = 0; i < 20; i++) {

Dice die1;

die1 = **new** Dice();

Dice die2;

die2 = **new** Dice();

**int** result1;

**int** result2;

result1 = die1.roll();

result2 = die2.roll();

**int** sum;

sum = result1 + result2;

System.***out***.println("First roll: " + result1);

System.***out***.println("Second roll: " + result2);

System.***out***.println("sum: " + sum);

}

12.

a. count7 should be an integer, as it is only holding integer values

b. count7 should be assigned an initial value of 0.

13.

**if** (sum == 7) {

count7++;

}

}

System.***out***.println("The number 7 was achieved " + count7 + " times");

15.

The number 7 was achieved 1662 times

The number 7 was achieved 1744 times

The number 7 was achieved 1595 times

The number 7 was achieved 1690 times

The number 7 was achieved 1734 times

17.

How many times should the dice be rolled?

15

The number 7 was achieved 4 times

19.

**import** java.util.Scanner;

**public** **class** DiceMain {

**public** **static** **void** main(String[] args) {

//Establishes the variable used to count all 7s

**int** count7;

count7 = 0;

//Scanner for question 16

Scanner scnr = **new** Scanner(System.***in***);

System.***out***.println("How many times should the dice be rolled?");

**int** answer = scnr.nextInt();

//Continually loops until a specific amount of dice are rolled

**for** (**int** i = 0; i < answer; i++) {

//Establishes dice used for the program

Dice die1;

die1 = **new** Dice();

Dice die2;

die2 = **new** Dice();

//Rolls the dice and stores the value

**int** result1;

**int** result2;

result1 = die1.roll();

result2 = die2.roll();

//Calculates sum

**int** sum;

sum = result1 + result2;

//Counts the amount of 7s rolled

**if** (sum == 7) {

count7++;

}

/\*

Scanner scnr = new Scanner(System.in);

System.out.println("Guess the result!!!");

int guess = scnr.nextInt();

Used for question 6

System.out.println("First roll: " + result1);

System.out.println("Second roll: " + result2);

System.out.println("sum: " + sum);

if (sum > 7) {

System.out.println("You win!!!");

} else if (sum < 7) {

System.out.println("You lose!!!");

} else if (sum == 7) {

System.out.println("We tie!!!");

}

Used in question 8

\*/

}

//displays amount of 7s rolled

System.***out***.println("The number 7 was achieved " + count7 + " times");

}

}

21.

**import** java.util.Scanner;

**public** **class** DiceMain {

**public** **static** **void** main(String[] args) {

//Establishes the variable used to count all 7s

**int** count7;

count7 = 0;

//Establishes the variable used to count all doubles

**int** doubles;

doubles = 0;

//Scanner for question 16

Scanner scnr = **new** Scanner(System.***in***);

System.***out***.println("How many times should the dice be rolled?");

**int** answer = scnr.nextInt();

//Continually loops until a specific amount of dice are rolled

**for** (**int** i = 0; i < answer; i++) {

//Establishes dice used for the program

Dice die1;

die1 = **new** Dice();

Dice die2;

die2 = **new** Dice();

//Rolls the dice and stores the value

**int** result1;

**int** result2;

result1 = die1.roll();

result2 = die2.roll();

//Calculates sum

**int** sum;

sum = result1 + result2;

//Counts the amount of 7s rolled

**if** (sum == 7) {

count7++;

}

**if** (result1 == result2) {

doubles++;

}

/\*

Scanner scnr = new Scanner(System.in);

System.out.println("Guess the result!!!");

int guess = scnr.nextInt();

Used for question 6

System.out.println("First roll: " + result1);

System.out.println("Second roll: " + result2);

System.out.println("sum: " + sum);

if (sum > 7) {

System.out.println("You win!!!");

} else if (sum < 7) {

System.out.println("You lose!!!");

} else if (sum == 7) {

System.out.println("We tie!!!");

}

Used in question 8

\*/

}

//displays amount of 7s rolled

System.***out***.println("The number 7 was achieved " + count7 + " times");

System.***out***.println("The number of doubles is " + doubles);

}

}

Output for 21:

How many times should the dice be rolled?

15

The number 7 was achieved 2 times

The number of doubles is 4