Jack Utzerath CST-105 9am Exercise 4 10/17/21

## Loom Video:

https://www.loom.com/share/af17b67e818545d8bff2f803cff4ce72

## Code ScreenShots:

```
this.setValue(topOfTheDie);
//creates weighted dice roll
        }
if (j > 70 && j <= 80 )
```

```
* Jack Utzerath
* Dec 11, 2021
* This is my work
            //Ititialize Variable
int numberOfRolls = 100000;
int threeOfAKind = 0, fourOfAKind = 0, fiveOfAKind = 0;
            //For loop to generate multiple rolls for (int j = 0; j < numberOfRolls; j++) {
                   int[] dice = createDice(5);
//Type of roll to keep track of important info
threeOfAKind += typeOfRoll(dice, 3);
                   fourOfAKind += typeOfRoll(dice, 4);
fiveOfAKind += typeOfRoll(dice, 5);
             System.out.printf("In %,d rolls, you rolled 3 of a kind %,d times, 4 of a kind %,d times, "
+ "and 5 of a kind %,d times.", numberOfRolls, threeOfAKind, fourOfAKind, fiveOfAKind);
     //Creates Dice
public static int[] createDice(int amountOfDice) {
           //create object of the class
Dice die = new Dice();
            //Initialize Variables
int[] dice = new int[amountOfDice];
            for (int j = 0; j < dice.length; j++) {
   int currentDie = die.rollDice();</pre>
     public static int typeOfRoll(int[] dice, int index) {
                   count1 = 0;
```

## Output For standard Dice:

Output For weighted Dice: (changed die.rollDice() to die.rollWeightedDice() on line 50)

```
Problems @ Javadoc @ Declaration  C\Users\jacku\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\bin\jav
In 100,000 rolls, you rolled 3 of a kind 40,226 times, 4 of a kind 9,650 times, and 5 of a kind 1,091 times.
```