****

**Assignment 3**

**By Vedant Goswami**

****

August 10, 2022

section 320

# **Screen Shot of Running Program:-**

# 

# 

# **Java source code:**

**public class Assignment\_3\_Vedant\_Goswami {**

**/\***

**\* Assessment: Assignment 03.**

**\* Student Name: Vedant Goswami.**

**\* Due Date:12/08/2022(Friday).**

**\* Professor Name: Gustavo Adami.**

**\* section :320**

**\*/**

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

**// decleration of variables.**

**int roll = 0;**

**int[] diceRolls = new int[16];**

**int totalRolls = 0;**

**// sample the rolls**

**for(int count = 0; count < 1000; count++) {**

**roll = (int)(Math.*random*() \* 16) + 1;**

**diceRolls[roll - 1] = diceRolls[roll - 1] + 1; // adjust 1-10 value to 0-9 for index**

**}**

**// run a report**

**for(int index = 0; index < diceRolls.length; index++) { // crashes**

**System.*out*.printf("Count of %d is: %d%n", (index + 1), diceRolls[index]);**

**totalRolls = totalRolls + diceRolls[index];**

**}**

**// decleration for total even and total odd rolls.**

**int odd\_Rolls = 0;**

**int even\_Rolls = 0;**

**//creeating for loop to get odd and even index seprated.**

**for (int index = 0; index < diceRolls.length; index ++ ) {**

**if((index+1)% 2 ==0 ) {even\_Rolls += diceRolls[index]; }**

**else {odd\_Rolls += diceRolls[index];}**

**}**

**// printing the report of total of odd and even number inaddtion to the total rolls report.**

**System.*out*.println("Total rolls were: " + totalRolls);**

**System.*out*.println("Number of even\_Rolls rolls"+" " + even\_Rolls);**

**System.*out*.println("Number of odd\_Rolls rolls"+" " + odd\_Rolls);**

**System.*out*.println("Program by Vedant Goswami");**

**}}**