**PRACTICAL – 5(3)**

**Aim: Write a java program to generate user defined exception using**

**“throw” and “throws” keyword.**

**Also Write a java that differentiate checked and unchecked exceptions.**

**(Mention at least two checked and two unchecked exception in program).**

**SOURCE CODE:**

public class Practical\_5\_3 {

*int* create\_exception() throws ArithmeticException {

*int* x = 10 / 0;

        return x;

    }

    public *void* checkAge(*int* *age*) {

        if (*age* < 18)

            throw new ArithmeticException("Not Eligible to Vote.");

        else

            System.out.println("Eligible for voting.");

    }

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

        Practical\_5\_3 obj = new Practical\_5\_3();

        System.out.println("20DCE019-Yatharth Chauhan\n");

        try {

            obj.create\_exception();

        } catch (ArithmeticException e) {

            System.out.println("An Error has occured.");

            System.out.println("\n20DCE019-Yatharth Chauhan");

        }

*int* age = 10;

        obj.checkAge(age);

    }

}

**OUTPUT:**

**Text

Description automatically generated**

**CONCLUSION:**

1. Here also we have used the concept of exception handling.

2. Here we have made the user defined exception in order to check whether age entered is eligible for voting or not.