SUBJECT: OBJECT ORIENTED PROGRAMMING

Submitted To: Engr. Asmatullah

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Lab: Lab-08 Tasks

**Question 01:**

Write a java program in which exception is handled if number is divided by zero and print the exception name.

Source Code:

**package** Lab\_08\_Tasks;

**import** java.util.Scanner;

**public** **class** Lab\_08\_Task\_01 {

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

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

System.out.print("Enter a number: ");

**int** num = sc.nextInt();

**try**{

System.out.println(num/0);

}

**catch**(ArithmeticException ae){

System.out.println("Exception named \'"+ae.getMessage()+"\' occurred");

} // end of try catch block

} // end of main() method

} // end of program

OUTPUT:

**Question 02:**

Create three classes, Storage, Counter, and Printer. The Storage class should store an integer. The Counter class should create a thread that starts counting from 0 (i.e. 0,1, 2,3,4….) and stores each value in the Storage class. The Printer class should create a new thread that keeps reading the value in the Storage class and printing it.

Source Code:

**package** Lab\_07\_Tasks;

**class** Storage {

**static** **int**[] storage = **new** **int**[11];

} // end of class Storage

**class** Counter **extends** Thread{

@Override

**public** **void** run(){

**for**(**int** i=0; i<11; i++){

// Store i value into storage variable of class Storage

Storage.storage[i] = i;

}

}

} // end of class Counter

**class** Printer **extends** Thread{

@Override

**public** **void** run(){

**for**(**int** i=0; i<11; i++){

// print storage value

System.out.println(Storage.storage[i]);

}

}

} // end of class Printer

**public** **class** Lab\_07\_Task\_02 {

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

Counter c = **new** Counter();

c.start();

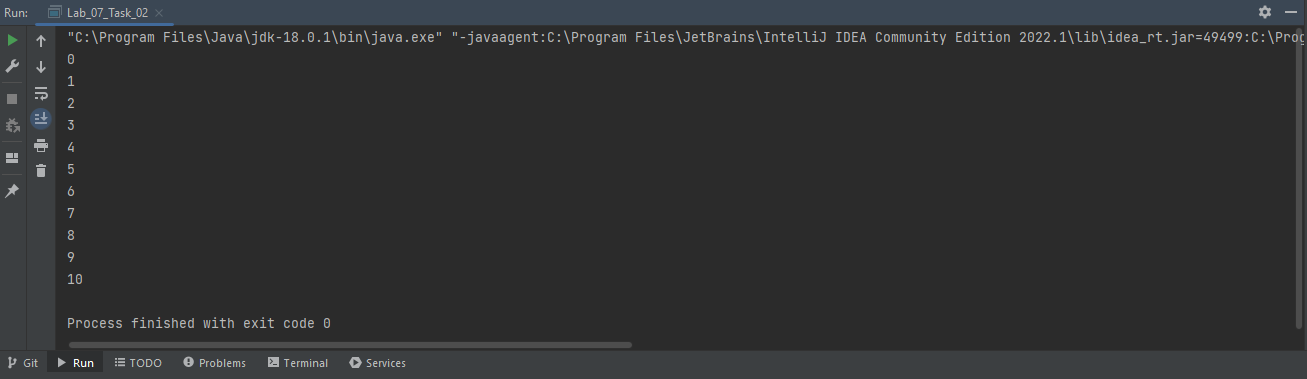
Printer p = **new** Printer();

p.start();

} // end of main() method

} // end of program

OUTPUT:

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