Q1. Demonstrate user-defined Exception with java.

**Code:**

import java.lang.Exception;

class MyException extends Exception {

    MyException(String message) {

        super(message);

    }

}

class Testing {

    public static void main(String[] args) {

        float a=60, b=10000000;

        try {

            float c = a/b;

            if(c < 0.1) {

                throw new MyException("The result is too smallllll");

            }

        }

        catch(MyException e) {

            System.out.println("Exception is caught");

            System.out.println(e.getMessage());

        }

        finally {

            System.out.println("Called for nothing");

        }

    }

}

**Output:**



Q2. Write Java Program to check whether a number is an Armstrong or not using user-defined exceptions.

**Code:**

import java.lang.Exception;

import java.util.Scanner;

class MyException extends Exception {

    MyException(String message) {

        super(message);

    }

}

class chkarm {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

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

    int num = sc.nextInt();

    int og = num;

    int remainder = 0;

    int sum = 0;

    while(num > 0){

        remainder = num % 10;

        sum = sum + (remainder\*remainder\*remainder);

        num /= 10;

    }

        try {

            if(og != sum) {

                throw new MyException(og + " is not an Armstrong number.");

            }else{

            System.out.println(og + " is an Armstrong number. ");

        }

        }

        catch(MyException e) {

            System.out.println("Exception is caught!");

            System.out.println(e.getMessage());

        }

        finally {

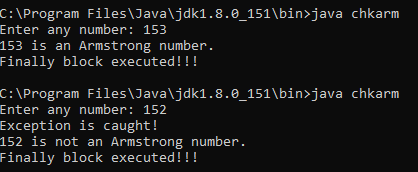
            System.out.println("Finally block executed!!!");

        }

    }

}

**Output:**



Q3. Write a java program to read the student data from user and store it in the file.

**Code:**

import java.io.\*;

import java.util.Scanner;

public class FileHandling{

    public static void main(String[] args) throws FileNotFoundException, IOException {

        String s1,s2,s3;

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter name: ");

        s1 = sc.nextLine();

        System.out.println("Enter Phone number: ");

        s2 = sc.nextLine();

        System.out.println("Enter address: ");

        s3 = sc.nextLine();

        OutputStream fos = new FileOutputStream("FileHandling text.txt");

        byte b1[] = s1.getBytes();

        fos.write(b1 + " ");

        byte b2[] = s2.getBytes();

        fos.write(b2 + " ");

        byte b3[] = s3.getBytes();

        fos.write(b3 + " ");

        fos.close();

        System.out.println("File Created");

    }

}

**Output:**

