

Programming Fundamentals

Submitted to

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# **Class Assignment 4**

## **Question 1**

Write a program to create a file named Text\_IO.txt if it does not exist. Append new data to it if it already exists……………….

## **Source Code**

package *F*ile\_*H*andling;

import java.io.*\**;

import java.util.*\**;

public class writeIntegers {

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

        //random class to generate random numbers

        Random random = **new** Random();

        String path = "Text\_IO.txt";

        File file = **new** File(path);

        //if file not found, creating new file

        if (!file.exists()){

            file.createNewFile();}

        //using Buffer to write on the file

        BufferedWriter output = **new** BufferedWriter(**new** FileWriter(file,true));

        //loop to write 100 integers on file

        for (*int* i = 0; i <= 100; i++){

*int* randomNumber = random.nextInt(100);

            output.write(randomNumber + " ");

        }

        output.newLine();

        output.close();

        System.out.print("Successfully wrote to the file");

    }

}

## **Output**

A screenshot of a computer

Description automatically generated with medium confidence

## **Question 2**

The popularity ranking of baby names from years 2015 to 2018 is downloaded from https://www.ssa.gov/oact/babynames/ and stored in files named babynameranking2015.txt, . . ….

## **Source Code**

package *F*ile\_*H*andling;

import java.util.*\**;

import java.io.*\**;

public class babyNameRanking {

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

        //getting input of year, name and Gender

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

        System.out.print("Enter the year: ");

*int* year = Keyboardinput.nextInt();

        System.out.print("Enter the gender(M/F): ");

        String gender = Keyboardinput.next();

        System.out.print("Enter the name: ");

        String name = Keyboardinput.next();

        Keyboardinput.close();

        //file

        File file = **new** File("babynameranking"+year+".txt"); //file

        //variable to print ranking of name

*int* count = 0;

        try {

            //scanner to read file

            Scanner input = **new** Scanner(file);

            while (input.hasNext()) {

                count++;

                //storing file in variable to search the requires name

                final String  lineFromFile = input.nextLine();

                //if found

                if (lineFromFile.contains(name)) {

                    // a match!

                    System.out.println(name + " is ranked #" + count + " in year " + year);

                    break;

                }

            }

            input.close();

        }

        catch (IOException *e*) {

            e.printStackTrace();

        }

    }

}

## **Output**

Text

Description automatically generated