**200932220 강 홍 구**

**[ch10 – 1]**

**import** java.io.File;

**import** java.io.FileNotFoundException;

**import** java.util.Scanner;

/\*\*

\* Program to ReadFile

\* Author : Kang Hong Gu

\* Programming Project1 in chapter10

\*/

**public** **class** ReadFile {

String fileName;

File number;

Scanner inputStream = **null**;

**public** ReadFile(String fileName)

{

**this**.fileName = fileName;

**this**.number = **new** File(**this**.fileName);

}

/\*

\* this function read file

\*/

**public** **void** readFile()

{

**try** {

inputStream = **new** Scanner(number);

} **catch** (FileNotFoundException e) {

// **TODO** Auto-generated catch block

System.*out*.println("File not found Exception occuer!");

e.printStackTrace();

System.*exit*(0);

}

**this**.caculateValue();

}

/\*

\* this functin calculate average , maximum number and minimum number.

\*/

**private** **void** caculateValue()

{

**int** count=0;

**double** min = 0;

**double** max = 0;

**double** sum=0;

**double** tmp=0;

**while**(inputStream.hasNextLine())

{

sum+= Double.*parseDouble*(inputStream.nextLine());

tmp = Double.*parseDouble*(inputStream.nextLine());

**if**(count==0)

{

min=Double.*parseDouble*(inputStream.nextLine());

max=Double.*parseDouble*(inputStream.nextLine());

}

**else**{

**if**(min > tmp){

min = tmp;

}

**if**(max < tmp)

{

max = tmp;

}

}

count++;

}

inputStream.close();

System.*out*.println("Average value of 'number.txt' is " + sum/count);

System.*out*.println("Maximum value of 'number.txt' is " + max);

System.*out*.println("Minimum value of 'number.txt' is " + min);

}

}

/\*\*

\* Program to ReadFile

\* Author : Kang Hong Gu

\* Programming Project1 in chapter10

\*/

**public** **class** ReadFileDemo {

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

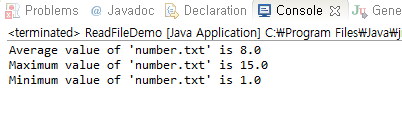
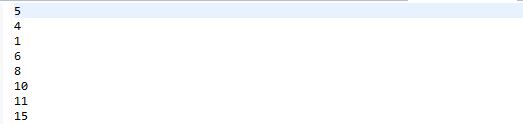
{

ReadFile test = **new** ReadFile("number.txt");

test.readFile();

}

}



**[ch10 – 3]**

**import** java.io.File;

**import** java.io.FileNotFoundException;

**import** java.io.PrintWriter;

**import** java.util.Scanner;

/\*\*

\* Program to ReadFile

\* Author : Kang Hong Gu

\* Programming Project3 in chapter10

\*/

**public** **class** ModifyText {

**private** String fileName\_in;

**private** String fileName\_out;

**private** Scanner inputStream = **null**;

**private** PrintWriter outputStream = **null**;

/\*

\* constructor

\*/

**public** ModifyText(String fileName, String fileName2) {

**this**.setFileName(fileName , fileName2);

}

/\*

\* set file name

\*/

**public** **void** setFileName(String fileName, String fileName2) {

**this**.fileName\_in = fileName;

**this**.fileName\_out = fileName2;

}

/\*

\* this function read file and write file

\*/

**public** **void** readAndWrite() {

**try** {

inputStream = **new** Scanner(**new** File(fileName\_in));

outputStream = **new** PrintWriter(**new** File(fileName\_out));

} **catch** (FileNotFoundException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

**while** (inputStream.hasNextLine()) {

String line = inputStream.nextLine();

line = **this**.deleteEmptySpace(line);

line = **this**.toUpperCaseFirstWord(line);

outputStream.println(line);

}

System.*out*.println("Success modification text.");

inputStream.close();

outputStream.close();

}

/\*

\* this function delete two more empty space

\*/

**private** String deleteEmptySpace(String line) {

String modifyLine = "";

String[] word;

word = line.split(" ");

**for** (**int** i = 0; i < word.length; i++) {

**if** (i == 0)// 대문자 바꾸기

{

word[i] = word[i].replace(word[i].charAt(0), word[i]

.toUpperCase().charAt(0));

}

**if** (word[i].equals("")) {

**continue**;

} **else** {

**if** (word[i].contains(".") || word[i].contains("?")

|| word[i].contains("!")) {

}

modifyLine += word[i] + " ";

}

}

**return** modifyLine;

}

/\*

\* this function toupper case first word

\*/

**private** String toUpperCaseFirstWord(String line) {

String modifyLine = "";

String[] word;

word = line.split(" ");

**for** (**int** i = 0; i < word.length; i++) {

**if** (word[i].contains(".") || word[i].contains("?")

|| word[i].contains("!")) {

**if** (i + 1 < word.length) {

word[i + 1] = word[i+1].replace(word[i + 1].charAt(0),

word[i + 1].toUpperCase().charAt(0));

}

}

modifyLine += word[i] + " ";

}

**return** modifyLine;

}

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

String file\_in;

String file\_out;

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

System.*out*.println("Enter the input filename : ");

file\_in = keyboard.nextLine();

System.*out*.println("Enter the output filename : ");

file\_out = keyboard.nextLine();

ModifyText test = **new** ModifyText(file\_in, file\_out);

test.readAndWrite();

}

}

