



รายงาน

Final project

โดย

นาย พิทยา กานต์อาสิจ

รายงานนี้เป็นส่วนหนึ่งของวิชาเขียนโปรแกรมภาษาจาวา BCOM 361

หลักสูตรบริหารธุรกิจบัณฑิต สาขาวิชาคอมพิวเตอร์ธุรกิจ

คณะบริหารธุรกิจและรัฐประศาสนศาสตร์

มหาวิทยาลัยเนชั่น

ปีการศึกษา 2561

คำนำ

รายงานรายวิชาเขียนโปรแกรมภาษาจาวา BCOM 361 จัดทำขึ้น โดยมีวัตถุประสงค์เพื่อเป็น Final Project ของวิชาเขียนโปรแกรมภาษาจาวา BCOM 361 เป็นโปรแกรม 14 โปรแกรมที่ใช้ในการเพิ่มลบแก้ไขไฟล์ข้อมูลเกี่ยวกับนักเรียนและวิชาที่ลงทะเบียน

พิทยา กานต์อาสัญ

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สารบัญ

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1. Source Code

```

1  import java.io.*;
2  import java.lang.*;
3  import java.util.regex.*;
4  class finalproject {
5  public static void main(String args[]) throws IOException {
6      String waitopt;
7      BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
8      String buf;
9      waitopt = "Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : ";
10     displaymenu();
11     System.out.print(waitopt);
12     buf = stdin.readLine();
13     while (!buf.equals("0")) {
14         if (buf.equals("0") || buf.equals("bye")) {
15             System.out.println("Bye Bye");
16             break;
17         } else if (buf.equals("1")) {
18             addstu();
19             buf = " ";
20         } else if (buf.equals("2")) {
21             addsubj();
22             buf = " ";
23         } else if (buf.equals("3")) {
24             addreg();
25             buf = " ";
26         } else if (buf.equals("4")) {
27             deletestu();
28             buf = " ";
29         } else if (buf.equals("5")) {
30             deletesubj();
31             buf = " ";
32         } else if (buf.equals("6")) {
33             deletereg();
34             buf = " ";
35         } else if (buf.equals("7")) {
36             editstu();
37             buf = " ";
38         } else if (buf.equals("8")) {
39             editsubj();
40             buf = " ";
41         } else if (buf.equals("9")) {
42             editreg();
43             buf = " ";
44         } else if (buf.equals("10")) {
45             list("student.txt");
46             buf = " ";
47         } else if (buf.equals("11")) {
48             list("subj.txt");
49             buf = " ";
50         } else if (buf.equals("12")) {
51             list("regist.txt");
52             buf = " ";
53         } else if (buf.equals("13")) {
54             Search();
55             buf = " ";
56         } else if (buf.equals("14")) {
57             MyData();
58             buf = " ";
59         } else {
60             System.out.print(waitopt);
61             buf = stdin.readLine();
62             // buf = (char)System.in.read(); // for 1 character
63         }
64     }
65 }
66
67 //=====MENU=====
68 static void displaymenu () {
69     System.out.println("0 : bye bye");
70     System.out.println("1 : Add Student Data");
71     System.out.println("2 : Add Subject Data");
72     System.out.println("3 : Add Regist Data");
73     System.out.println("4 : Delete Student Data");
74     System.out.println("5 : Delete Subject Data");
75     System.out.println("6 : Delete on id");
76     System.out.println("7 : Edit Student Data");
77     System.out.println("8 : Edit Subject Data");
78     System.out.println("9 : Edit Regist Data");
79     System.out.println("10 : List Student Data");

```

```

79     System.out.println("11 : List Subject Data");
80     System.out.println("12 : List Regist Data");
81     System.out.println("13 : Search Regist Data");
82     System.out.println("14 : My Data");
83     System.out.println("");
84 }
85 //=====1. Add Student Data=====
86 public static void addstu () throws IOException {
87     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
88     String bufid,bufname;
89     System.out.print("Student id : ");
90     bufid = stdin.readLine();
91     System.out.print("Student name : ");
92     bufname = stdin.readLine();
93     String b;
94     String ar[] = new String[10];
95     FileReader fin = new FileReader("student.txt");
96     BufferedReader bin = new BufferedReader (fin);
97     int i = 0;
98     while ((b = bin.readLine()) != null) {
99         ar[i] = b;
100        i = i + 1;
101    }
102    fin.close();
103    //
104    int tot = i;
105    FileOutputStream fout = new FileOutputStream("student.txt");
106    BufferedOutputStream bout = new BufferedOutputStream(fout);
107    PrintStream pout = new PrintStream(bout);
108    i = 0;
109    while (i < tot) {
110        pout.println(ar[i]);
111        i = i + 1;
112    }
113    pout.println(bufid + "," + bufname);
114    System.out.println("Add Student : completely");
115    pout.close();
116 }
117 //=====2. Add Subject Data=====
118 public static void addsubj () throws IOException {
119     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
120     String bufid,bufname;
121     System.out.print("Wait subj ID : ");
122     bufid = stdin.readLine();
123     System.out.print("Wait subj name : ");
124     bufname = stdin.readLine();
125     String b;
126     String ar[] = new String[10];
127     FileReader fin = new FileReader("subj.txt");
128     BufferedReader bin = new BufferedReader (fin);
129     int i = 0;
130     while ((b = bin.readLine()) != null) {
131         ar[i] = b;
132         i = i + 1;
133     }
134     fin.close();
135     //
136     int tot = i;
137     FileOutputStream fout = new FileOutputStream("subj.txt");
138     BufferedOutputStream bout = new BufferedOutputStream(fout);
139     PrintStream pout = new PrintStream(bout);
140     i = 0;
141     while (i < tot) {
142         pout.println(ar[i]);
143         i = i + 1;
144     }
145     pout.println(bufid + "," + bufname );
146     System.out.println("Add Subject : completely");
147     pout.close();
148 }
149 //=====3. Add Regist Data=====
150 public static void addreg () throws IOException {
151     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
152     String bufid,bufname,bufgrade;
153     System.out.print("Wait Student ID : ");
154     bufid = stdin.readLine();
155     System.out.print("Wait Subject ID : ");
156     bufname = stdin.readLine();

```

```

157     System.out.print("Wait Grade: ");
158     bufgrade = stdin.readLine();
159     String b;
160     String ar[] = new String[10];
161     FileReader fin = new FileReader("regist.txt");
162     BufferedReader bin = new BufferedReader (fin);
163     int i = 0;
164     while ((b = bin.readLine()) != null) {
165         ar[i] = b;
166         i = i + 1;
167     }
168     fin.close();
169     //
170     int tot = i;
171     FileOutputStream fout = new FileOutputStream("regist.txt");
172     BufferedOutputStream bout = new BufferedOutputStream(fout);
173     PrintStream pout = new PrintStream(bout);
174     i = 0;
175     while (i < tot) {
176         pout.println(ar[i]);
177         i = i + 1;
178     }
179     pout.println(bufid + "," + bufname );
180     System.out.println("Add Regist : completely");
181     pout.close();
182 }

183 //=====4. Delete Student=====
184 public static void deletestu () throws IOException {
185     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
186     String bufid;
187     String a;
188     String br[] = new String[10];
189     FileReader oin = new FileReader("student.txt");
190     BufferedReader pin = new BufferedReader (oin);
191     while ((a = pin.readLine()) != null) {
192         System.out.print(a+"\n");
193     }
194     System.out.print("Wait STUDENT id : ");
195     bufid = stdin.readLine();
196     String b;
197     String ar[] = new String[10];
198     FileReader fin = new FileReader("student.txt");
199     BufferedReader bin = new BufferedReader (fin);
200     int i = 0;
201     while ((b = bin.readLine()) != null) {
202         ar[i] = b;
203         i = i + 1;
204     }
205     fin.close();
206     //
207     int tot = i;
208     FileOutputStream fout = new FileOutputStream("student.txt");
209     BufferedOutputStream bout = new BufferedOutputStream(fout);
210     PrintStream pout = new PrintStream(bout);
211     i = 0;
212     while (i < tot) {
213         if (bufid.equals(ar[i].substring(0,3))) {
214             System.out.println("Delete STUDENT : completely");
215         } else {
216             pout.println(ar[i]);
217         }
218         i = i + 1;
219     }
220     pout.close();
221 }
222 //=====5. Delete Subject=====
223 public static void deletesubj () throws IOException {
224     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
225     String bufid;
226     String a;
227     String br[] = new String[10];
228     FileReader oin = new FileReader("subj.txt");
229     BufferedReader pin = new BufferedReader (oin);
230     while ((a = pin.readLine()) != null) {
231         System.out.print(a+"\n");
232     }
233     System.out.print("Wait SUBJECT id : ");
234     bufid = stdin.readLine();

```

```

235 String b;
236 String ar[] = new String[10];
237 FileReader fin = new FileReader("subj.txt");
238 BufferedReader bin = new BufferedReader (fin);
239 int i = 0;
240 while ((b = bin.readLine()) != null) {
241     ar[i] = b;
242     i = i + 1;
243 }
244 fin.close();
245 //
246 int tot = i;
247 FileOutputStream fout = new FileOutputStream("subj.txt");
248 BufferedOutputStream bout = new BufferedOutputStream(fout);
249 PrintStream pout = new PrintStream(bout);
250 i = 0;
251 while (i < tot) {
252     if (bufid.equals(ar[i].substring(0,2))) {
253         System.out.println("Delete SUBJECT : completely");
254     } else {
255         pout.println(ar[i]);
256     }
257     i = i + 1;
258 }
259 pout.close();
260 }

261 //=====6. Delete Regist=====
262 public static void deletereg () throws IOException {
263     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
264     String bufid;
265     String a;
266     String br[] = new String[10];
267     FileReader oin = new FileReader("regist.txt");
268     BufferedReader pin = new BufferedReader (oin);
269     while ((a = pin.readLine()) != null) {
270         System.out.print(a+"\n");
271     }
272     System.out.print("Wait REGIST id : ");
273     bufid = stdin.readLine();
274     String b;
275     String ar[] = new String[10];
276     FileReader fin = new FileReader("regist.txt");
277     BufferedReader bin = new BufferedReader (fin);
278     int i = 0;
279     while ((b = bin.readLine()) != null) {
280         ar[i] = b;
281         i = i + 1;
282     }
283     fin.close();
284     //
285     int tot = i;
286     FileOutputStream fout = new FileOutputStream("regist.txt");
287     BufferedOutputStream bout = new BufferedOutputStream(fout);
288     PrintStream pout = new PrintStream(bout);
289     i = 0;
290     while (i < tot) {
291         if (bufid.equals(ar[i].substring(0,3))) {
292             System.out.println("Delete REGIST : completely");
293         } else {
294             pout.println(ar[i]);
295         }
296         i = i + 1;
297     }
298     pout.close();
299 }

300 //=====7. Edit Student=====
301 public static void editstu () throws IOException {
302     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
303     String bufid,bufname;
304     String a;
305     String br[] = new String[10];
306     FileReader oin = new FileReader("student.txt");
307     BufferedReader pin = new BufferedReader (oin);
308     while ((a = pin.readLine()) != null) {
309         System.out.print(a+"\n");
310     }
311     System.out.print("Wait STUDENT id : ");
312     bufid = stdin.readLine();

```

```

313     System.out.print("Wait STUDENT name : ");
314     bufname = stdin.readLine();
315     String b;
316     String ar[] = new String[10];
317     FileReader fin = new FileReader("student.txt");
318     BufferedReader bin = new BufferedReader (fin);
319     int i = 0;
320     while ((b = bin.readLine()) != null) {
321         ar[i] = b;
322         i = i + 1;
323     }
324     fin.close();
325     //
326     int tot = i;
327     FileOutputStream fout = new FileOutputStream("student.txt");
328     BufferedOutputStream bout = new BufferedOutputStream(fout);
329     PrintStream pout = new PrintStream(bout);
330     i = 0;
331     while (i < tot) {
332         if (bufid.equals(ar[i].substring(0,3))) {
333             pout.println(bufid + "," + bufname);
334             System.out.println("Edit STUDENT : completely");
335         } else {
336             pout.println(ar[i]);
337         }
338         i = i + 1;
339     }
340     pout.close();
341 }
342 //=====8. Edit Subject=====
343 public static void editsubj () throws IOException {
344     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
345     String bufid,bufname;
346     String a;
347     String br[] = new String[10];
348     FileReader oin = new FileReader("subj.txt");
349     BufferedReader pin = new BufferedReader (oin);
350     while ((a = pin.readLine()) != null) {
351         System.out.print(a+"\n");
352     }
353     System.out.print("Wait SUBJECT id : ");
354     bufid = stdin.readLine();
355     System.out.print("Wait SUBJECT name : ");
356     bufname = stdin.readLine();
357     String b;
358     String ar[] = new String[10];
359     FileReader fin = new FileReader("subj.txt");
360     BufferedReader bin = new BufferedReader (fin);
361     int i = 0;
362     while ((b = bin.readLine()) != null) {
363         ar[i] = b;
364         i = i + 1;
365     }
366     fin.close();
367     //
368     int tot = i;
369     FileOutputStream fout = new FileOutputStream("subj.txt");
370     BufferedOutputStream bout = new BufferedOutputStream(fout);
371     PrintStream pout = new PrintStream(bout);
372     i = 0;
373     while (i < tot) {
374         if (bufid.equals(ar[i].substring(0,1))) {
375             pout.println(bufid + "," + bufname);
376             System.out.println("Edit SUBJECT : completely");
377         } else {
378             pout.println(ar[i]);
379         }
380         i = i + 1;
381     }
382     pout.close();
383 }
384 //=====9. Edit Regist=====
385 public static void editreg () throws IOException {
386     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
387     String bufid,bufname,bufgrade;
388     String a;
389     String br[] = new String[10];
390     FileReader oin = new FileReader("regist.txt");

```



```

391     BufferedReader pin = new BufferedReader (oin);
392     while ((a = pin.readLine()) != null) {
393         System.out.print(a+"\n");
394     }
395     System.out.print("Wait STUDENT ID : ");
396     bufid = stdin.readLine();
397     System.out.print("Wait SUBJECT ID : ");
398     bufname = stdin.readLine();
399     String b;
400     String ar[] = new String[10];
401     FileReader fin = new FileReader("regist.txt");
402     BufferedReader bin = new BufferedReader (fin);
403     int i = 0;
404     while ((b = bin.readLine()) != null) {
405         ar[i] = b;
406         i = i + 1;
407     }
408     fin.close();
409     //
410     int tot = i;
411     FileOutputStream fout = new FileOutputStream("regist.txt");
412     BufferedOutputStream bout = new BufferedOutputStream(fout);
413     PrintStream pout = new PrintStream(bout);
414     i = 0;
415     while (i < tot) {
416         if (bufid.equals(ar[i].substring(0,3))) {
417             pout.println(bufid + "," + bufname);
418             System.out.println("Edit REGIST : completely");
419         } else {
420             pout.println(ar[i]);
421         }
422         i = i + 1;
423     }
424     pout.close();
425 }
426 //=====10. 11. 12.=====
427 public static void list (String f) throws IOException {
428     int n = 0;
429     byte b[] = new byte[128];
430     FileInputStream fin = new FileInputStream(f);
431     while ((n = fin.read(b)) != -1) {
432         for(int i=0;i<n;i++) {
433             System.out.print((char)b[i]);
434         }
435     }
436     fin.close();
437 }
438 //=====13. Search Regist Data=====
439 public static void Search() throws IOException {
440     int found=0;
441     char buf;
442     String b,g = "";
443     String[] fields;
444     System.out.print("Enter Student ID :");
445     buf = (char)System.in.read();
446     while (buf != 'x') {
447         g = g + buf;
448         buf = (char)System.in.read();
449     }
450     FileReader fin = new FileReader("regist.txt");
451     BufferedReader bin = new BufferedReader (fin);
452     while ((b = bin.readLine()) != null) {
453         fields = b.split(",");
454         if (fields[0].equals(g)) {
455             System.out.println("Regist Data: "+ "\n" + "Student ID:" + fields[0] + "\n" + "Subject ID:" +
456                 fields[1]);
457             found = 1;
458         }
459     }
460     if (found == 0) {
461         System.out.println("Not found");
462         fin.close();
463     }
464 }
465 //=====14. MyData=====
466 public static void MyData () throws IOException {
467     BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
468     String bufid;
469     String a;
470     String br[] = new String[10];
471     FileReader oin = new FileReader("MyData.txt");
472     BufferedReader pin = new BufferedReader (oin);
473     while ((a = pin.readLine()) != null) {
474         System.out.print(a+"\n");
475     }
476 }

```

2. หน้าต่างผลลัพธ์

```
d:\JDK\bin>java finalproject
0 : bye bye
1 : Add Student Data
2 : Add Subject Data
3 : Add Regist Data
4 : Delete Student Data
5 : Delete Subject Data
6 : Delete on id
7 : Edit Student Data
8 : Edit Subject Data
9 : Edit Regist Data
10 : List Student Data
11 : List Subject Data
12 : List Regist Data
13 : Search Regist Data
14 : My Data

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] :
```

หน้าต่างแสดง Menu ของโปรแกรม

```
d:\JDK\bin>java finalproject
0 : bye bye
1 : Add Student Data
2 : Add Subject Data
3 : Add Regist Data
4 : Delete Student Data
5 : Delete Subject Data
6 : Delete on id
7 : Edit Student Data
8 : Edit Subject Data
9 : Edit Regist Data
10 : List Student Data
11 : List Subject Data
12 : List Regist Data
13 : Search Regist Data
14 : My Data

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : bye
Bye Bye
```

หากพิมพ์เลข 0 หรือ bye จะเป็นการออกจากระบบ

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 1
Student id : 101
Student name : Pit
Add Student : completely
```

เพิ่มนักเรียนโดยการใส่ ID และชื่อ

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 2
Wait subj ID : 5
Wait subj name : Law
Add Subject : completely
```

เพิ่มวิชาโดยการใส่รหัสวิชาและชื่อวิชา

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 3
Wait Student ID : 105
Wait Subject ID : 01
Wait Grade: A
Add Regist : completely
```

เพิ่มนักเรียนและรายวิชา

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 4
102,Tanawat
103,Kanchanawadee
104,Boonyada
105,Pittaya
106,James
Wait STUDENT id : 103
Delete STUDENT : completely
```

ลบนักเรียน

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 5
1,Thai
2,Math
3,English
4,Law
6,COMM
7,BCOM
01,Thai
Wait SUBJECT id : 01
Delete SUBJECT : completely
```

ลบวิชา

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 6
101,01
102,01
103,02
104,03
105,04
102,02
Wait REGIST id : 105
Delete REGIST : completely
```

ลบวิชาที่ลงทะเบียน

```

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 7
102,Tanawat
104,Boonyada
105,Pittaya
106,James
Wait STUDENT id : 106
Wait STUDENT name : Sames
Edit STUDENT : completely

```

แก้ไขนักเรียน

```

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 8
1,Thai
2,Math
3,English
4,Law
6,COMM
7,BCOM
Wait SUBJECT id : 4
Wait SUBJECT name : Social
Edit SUBJECT : completely

```

แก้ไขวิชา

```

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 9
101,01
102,04
103,03
104,03
102,04
Wait STUDENT ID : 102
Wait SUBJECT ID : 05
Edit REGIST : completely

```

แก้ไขการลงทะเบียน

```

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 10
102,Tanawat
104,Boonyada
105,Pittaya
106,Sames
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 11
1,Thai
2,Math
3,English
4,Social
6,COMM
7,BCOM
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 12
101,01
102,05
103,03
104,03
102,05
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] :

```

แสดง ข้อมูลการลงทะเบียน ข้อมูลนักเรียน ข้อมูลวิชา

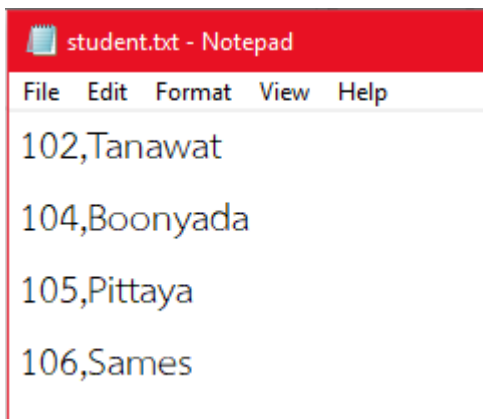
```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 13
Enter Student ID :103x
Regist Data:
Student ID:103
Subject ID:03
```

แสดงข้อมูลการลงทะเบียนตามรหัสนักเรียน

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14] : 14
Pittaya Kanasin
5808311001
Nation University
Business Computer
```

แสดงข้อมูลผู้ทำโปรแกรม

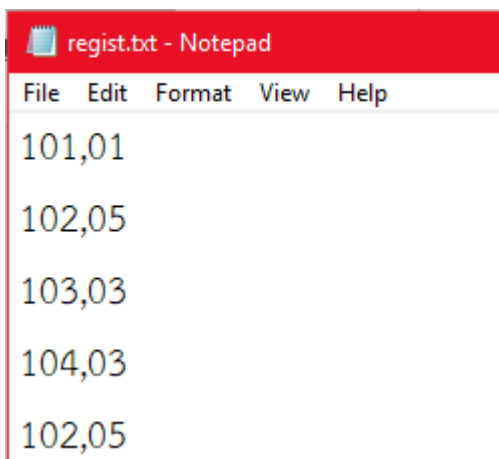
file student.txt



student.txt - Notepad

File	Edit	Format	View	Help
102,Tanawat				
104,Boonyada				
105,Pittaya				
106,Sames				

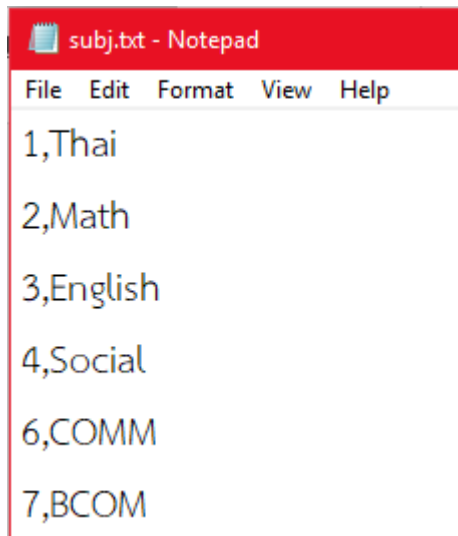
file regist.txt



regist.txt - Notepad

File	Edit	Format	View	Help
101,01				
102,05				
103,03				
104,03				
102,05				

file subj.txt



file MyData.txt

