

งานที่ 10 13/11/61

ส่วนของโค้ด

```
import java.io.*;
import java.lang.*;
import java.util.regex.*;

class tax10 {

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

        String waitopt;

        BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));

        String buf;

        waitopt = "Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : ";

        displaymenu();

        System.out.print(waitopt);

        buf = stdin.readLine();

        while (!buf.equals("0")) {

            if (buf.equals("0") || buf.equals("bye")) {

                System.out.println("Bye Bye");

                break;

            } else if (buf.equals("1")) {

                addstu();

                buf = " ";

            } else if (buf.equals("2")) {

                addsubj();

                buf = " ";

            } else if (buf.equals("3")) {

                addreg();

                buf = " ";

            } else if (buf.equals("4")) {

                deletestu();

                buf = " ";

            } else if (buf.equals("5")) {

                deletesubj();

                buf = " ";

            }

        }

    }

}
```

```

}else if (buf.equals("6")) {
    deletereg();
    buf = " ";
}else if (buf.equals("7")) {
    editstu();
    buf = " ";
}else if (buf.equals("8")) {
    editsubj();
    buf = " ";
} else if (buf.equals("9")) {
    editreg();
    buf = " ";
}else if (buf.equals("10")) {
    list("student.txt");
    buf = " ";
} else if (buf.equals("11")) {
    list("subj.txt");
    buf = " ";
} else if (buf.equals("12")) {
    list("regist.txt");
    buf = " ";
} else {
    System.out.print(waitopt);
    buf = stdin.readLine();
    // buf = (char)System.in.read(); // for 1 character
}

}

// =====MENU=====

static void displaymenu () {
    System.out.println("0 : bye bye");
    System.out.println("1 : Add Student Data");
    System.out.println("2 : Add Subject Data");

```

```

        System.out.println("3 : Add Regist Data");
        System.out.println("4 : Delete Student Data");
        System.out.println("5 : Delete Subject Data");
        System.out.println("6 : Delete Regist Data");
        System.out.println("7 : Edit Student Data");
        System.out.println("8 : Edit Subject Data");
        System.out.println("9 : Edit Regist Data");
        System.out.println("10 : List Student Data");
        System.out.println("11 : List Subject Data");
        System.out.println("12 : List Regist Data");
        System.out.println("");
    }
    // =====Add Student
    Data=====

    public static void addstu () throws IOException {
        BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
        String bufid,bufname;
        System.out.print("Student id : ");
        bufid = stdin.readLine();
        System.out.print("Student name : ");
        bufname = stdin.readLine();
        String b;
        String ar[] = new String[10];
        FileReader fin = new FileReader("student.txt");
        BufferedReader bin = new BufferedReader (fin);
        int i = 0;
        while ((b = bin.readLine()) != null) {
            ar[i] = b;
            i = i + 1;
        }
        fin.close();
        //
        int tot = i;
    }

```

```

FileOutputStream fout = new FileOutputStream("student.txt");
BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    pout.println(ar[i]);
    i = i + 1;
}
pout.println(bufid + "," + bufname);
System.out.println("Add Student : completely");
pout.close();
}

// =====Add Subject Data=====
public static void addsubj () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid,bufname;
    System.out.print("Wait subj ID : ");
    bufid = stdin.readLine();
    System.out.print("Wait subj name : ");
    bufname = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("subj.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
        i = i + 1;
    }
    fin.close();
    //
    int tot = i;

```

```

FileOutputStream fout = new FileOutputStream("subj.txt");
BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    pout.println(ar[i]);
    i = i + 1;
}
pout.println(bufid + "," + bufname );
System.out.println("Add Student : completely");
pout.close();
}
// =====Add Regist Data=====
public static void addreg () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid,bufname,bufgrade;
    System.out.print("Wait Student ID : ");
    bufid = stdin.readLine();
    System.out.print("Wait Subject ID : ");
    bufname = stdin.readLine();
    System.out.print("Wait Grade: ");
    bufgrade = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("regist.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
        i = i + 1;
    }
    fin.close();
    //

```

```

int tot = i;
FileOutputStream fout = new FileOutputStream("regist.txt");
BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    pout.println(ar[i]);
    i = i + 1;
}
pout.println(bufid + "," + bufname+","+ bufgrade );
System.out.println("Add Student : completely");
pout.close();
}
// =====DELETE
STUDENT=====
public static void deletestu () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid;
    System.out.print("Wait STUDENT id : ");
    bufid = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("student.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
        i = i + 1;
    }
    fin.close();
    //
    int tot = i;
    FileOutputStream fout = new FileOutputStream("student.txt");

```

```

BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    if (bufid.equals(ar[i].substring(0,3))) {
        System.out.println("Delete STUDENT : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;
}
pout.close();
}
// =====DELETE
SUBJECT=====
public static void deletesubj () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid;
    System.out.print("Wait SUBJECT id : ");
    bufid = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("subj.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
        i = i + 1;
    }
    fin.close();
    //
    int tot = i;
    FileOutputStream fout = new FileOutputStream("subj.txt");

```

```

BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    if (bufid.equals(ar[i].substring(0,3))) {
        System.out.println("Delete SUBJECT : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;
}
pout.close();
}
// =====DELETE REGIST=====
public static void deletereg () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid;
    System.out.print("Wait REGIST id : ");
    bufid = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("regist.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
        i = i + 1;
    }
    fin.close();
    //
    int tot = i;
    FileOutputStream fout = new FileOutputStream("regist.txt");
    BufferedOutputStream bout = new BufferedOutputStream(fout);

```



```

PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    if (bufid.equals(ar[i].substring(0,3))) {
        System.out.println("Delete REGIST : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;
}
pout.close();
}
// =====EDIT STUDENT=====
public static void editstu () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid,bufname;
    System.out.print("Wait STUDENT id : ");
    bufid = stdin.readLine();
    System.out.print("Wait STUDENT name : ");
    bufname = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("student.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
        i = i + 1;
    }
    fin.close();
    //
    int tot = i;
    FileOutputStream fout = new FileOutputStream("student.txt");

```

```

BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    if (bufid.equals(ar[i].substring(0,3))) {
        pout.println(bufid + "," + bufname);
        System.out.println("Edit STUDENT : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;
}
pout.close();
}
// =====EDIT SUBJECT=====
public static void editsubj () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid,bufname;
    System.out.print("Wait SUBJECT id : ");
    bufid = stdin.readLine();
    System.out.print("Wait SUBJECT name : ");
    bufname = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("subj.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
        i = i + 1;
    }
    fin.close();
    //

```

```

int tot = i;
FileOutputStream fout = new FileOutputStream("subj.txt");
BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    if (bufid.equals(ar[i].substring(0,3))) {
        pout.println(bufid + "," + bufname);
        System.out.println("Edit SUBJECT : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;
}
pout.close();
}
// =====EDIT REGIST=====
public static void editreg () throws IOException {
    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    String bufid,bufname,bufgrade;
    System.out.print("Wait STUDENT ID : ");
    bufid = stdin.readLine();
    System.out.print("Wait SUBJECT ID : ");
    bufname = stdin.readLine();
    System.out.print("Wait Grade : ");
    bufgrade = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("regist.txt");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
        ar[i] = b;
    }
}

```

```

        i = i + 1;
    }
    fin.close();
    //
    int tot = i;
    FileOutputStream fout = new FileOutputStream("regist.txt");
    BufferedOutputStream bout = new BufferedOutputStream(fout);
    PrintStream pout = new PrintStream(bout);
    i = 0;
    while (i < tot) {
        if (bufid.equals(ar[i].substring(0,3))) {
            pout.println(bufid + "," + bufname + "," + bufgrade);
            System.out.println("Edit REGIST : completely");
        } else {
            pout.println(ar[i]);
        }
        i = i + 1;
    }
    pout.close();
}
// =====List DATA=====
public static void list (String f) throws IOException {
    int n = 0;
    byte b[] = new byte[128];
    FileInputStream fin = new FileInputStream(f);
    while ((n = fin.read(b)) != -1) {
        for(int i=0;i<n;i++) {
            System.out.print((char)b[i]);
        }
    }
    fin.close();
}
}

```



ส่วน screen


1. menu

```
C:\Program Files\Java\jdk-10.0.2\bin>java tax10
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 Regist Data
7 : Edit Student Data
8 : Edit Subject Data
9 : Edit Regist Data
10 : List Student Data
11 : List Subject Data
12 : List Regist Data

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

2. add student

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 1
Student id : 106
Student name : Vidapa
Add Student : completely
```

 student - Notepad

File Edit Format View Help

101,Worawat

102,Tanawat

103,Kanchanawadee

104,Boonyada

105,Pittaya

106,Vidapa

### 3. Add subject

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 2
Wait subj ID : 06
Wait subj name : COMM
Add Student : completely
```

subj - Notepad

File Edit Format View Help

01,Business

02,ThaiL

03,English

04,Law

06,COMM

### 4. Add regist

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 3
Wait Student ID : 106
Wait Subject ID : COMM
Wait Grade: A
Add Student : completely
```

regist - Notepad

File Edit Format View Help

101,02,A

102,01,A

103,02,B

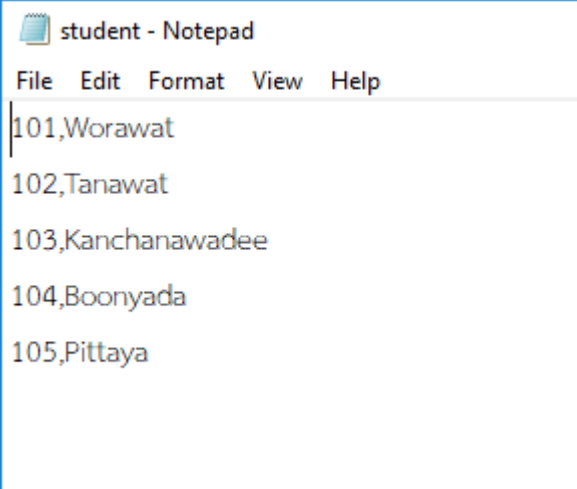
104,03,C

105,04,A

106,COMM,A

#### 5. Delete student

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 4
Wait STUDENT id : 106
Delete STUDENT : completely
```

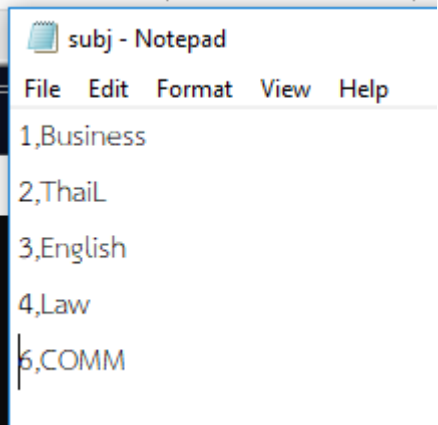


The screenshot shows a Notepad window titled "student - Notepad". The menu bar includes File, Edit, Format, View, and Help. The text content of the notepad is as follows:

STUDENT id	NAME
101	Worawat
102	Tanawat
103	Kanchanawadee
104	Boonyada
105	Pittaya

#### 6. Delete subject

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



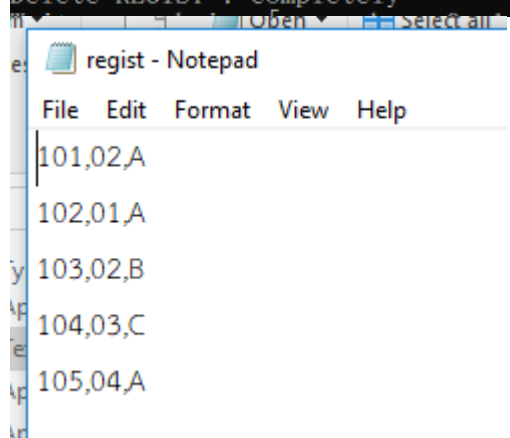
The screenshot shows a Notepad window titled "subj - Notepad". The menu bar includes File, Edit, Format, View, and Help. The text content of the notepad is as follows:

SUBJECT id	NAME
1	Business
2	Thail
3	English
4	Law
5	COMM



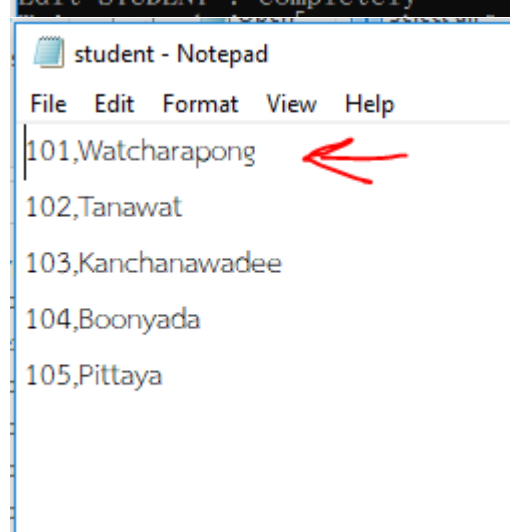
## 7. Delete regist

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 6
Wait REGIST id : 106
Delete REGIST : completely
```



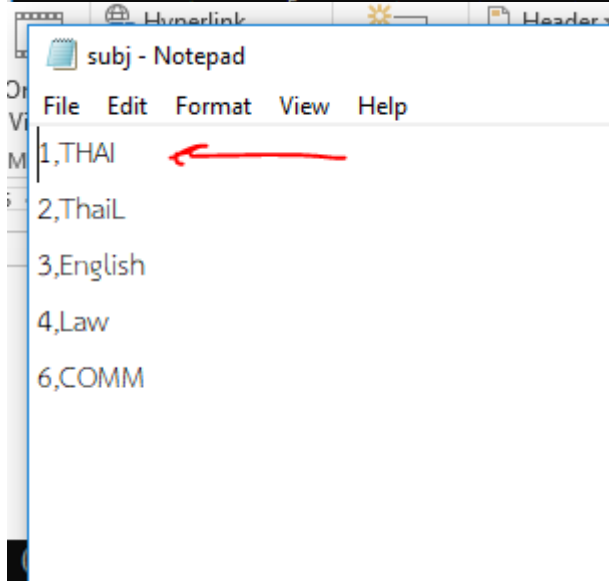
## 8. Edit student

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 7
Wait STUDENT id : 101
Wait STUDENT name : Watcharapong
Edit STUDENT : completely
```



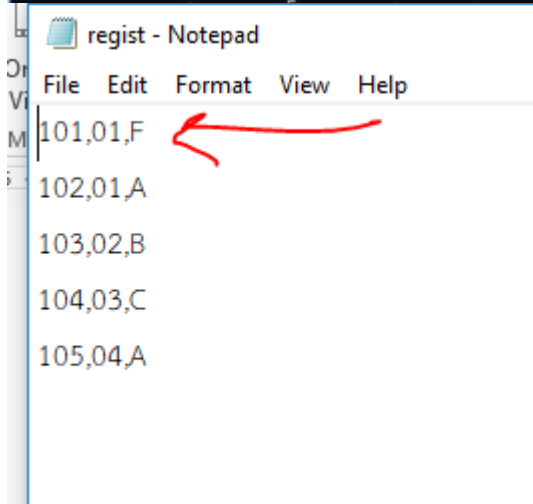
### 9. Edit subject

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 8
Wait SUBJECT id : 1
Wait SUBJECT name : THAI
```



### 10. Edit regist

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 9
Wait STUDENT ID : 101
Wait SUBJECT ID : 01
Wait Grade : F
Edit REGIST : completely
```



### 11. List student

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 10
101, Watcharapong
102, Tanawat
103, Kanchanawadee
104, Boonyada
105, Pittaya
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] :
```

### 12. List subject

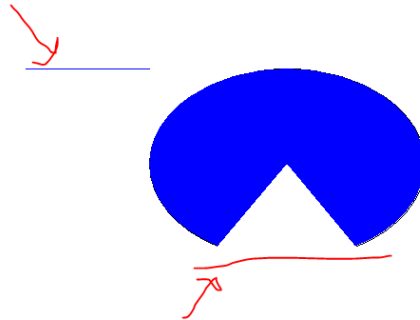
```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 11
1, THAI
2, ThaiL
3, English
4, Law
6, COMM
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] :
```

### 13. List regist

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 12
101, 01
102, 01, A
103, 02, B
104, 03, C
105, 04, A
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] :
```

## 10.2 วาดโดเมน(ไม่สำเร็จ)

Applet Viewer: tax1104.class  
Applet



```
tax1104 - Notepad
File Edit Format View Help
import java.applet.*;
import java.awt.*;
public class tax1104 extends Applet {
    Image img;
    public void init() {
        setBackground(Color.white);
    }
    public void paint(Graphics g) {
        g.drawArc(420,200,290,200,300,300);
        g.setColor(Color.blue);
        g.fillArc(420,200,290,200,300,300);
        g.drawLine(420,200,290,200);
        g.drawImage(img, 300, 400, this);
    }
}
```