



โปรแกรมจาวา

โดย

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รายงานฉบับนี้เป็นส่วนหนึ่งของวิชาการโปรแกรมจาวา (BCOM 361)

หลักสูตรวิทยาศาสตรบัณฑิต สาขาวิชาคอมพิวเตอร์ธุรกิจ

คณะบริหารธุรกิจและรัฐประศาสนศาสตร์

มหาวิทยาลัยเนชั่น ปีการศึกษา 2561

## คำนำ

รายงานฉบับนี้เป็นส่วนหนึ่งของรายวิชาโปรแกรมจาวา BCOM361 ซึ่งเนื้อหาในรายงานประกอบด้วย แฟ้มข้อมูลนิสิต แฟ้มข้อมูลรายวิชา แฟ้มข้อมูลการลงทะเบียน โปรแกรมเพิ่ม ลบ แก้ไข ข้อมูลจากแฟ้มข้อมูลรวมไปถึงผลลัพธ์ที่ได้จากโปรแกรมที่เขียนในแต่ละโปรแกรม

ข้าพเจ้าหวังเป็นอย่างยิ่งว่ารายงานฉบับนี้จะเป็นประโยชน์ต่อผู้ที่ศึกษาไม่มากก็น้อย หากผิดพลาดประการใดขออภัยมา ณ ที่นี้ด้วย

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### 1.เพิ่มข้อมูลของนิสิตประกอบด้วย รหัสนิสิต ชื่อนิสิต และ เพศของนิสิต

```
590811001,Mr.surawit,Male
590811002,Mr.Nattawut,Male
590811003,Miss,Khuntika,Female
```

### 2.เพิ่มข้อมูลรายวิชาประกอบด้วย รหัสวิชา ชื่อวิชา และจำนวนหน่วยกิต

```
BCOM361,java,3
BCOM314,MIS,3
```

### 3.เพิ่มข้อมูลการลงทะเบียนเรียนประกอบด้วย รหัสนักศึกษา รหัสวิชา เกรด และกลุ่มการเรียน

```
590811001,BCOM314,A,1
590811002,BCOM314,A,1
590811003,BCOM314,A,1
```

### 4.โปรแกรมเพิ่มข้อมูล นิสิต รายวิชา และ การลงทะเบียน

#### 4.1 โปรแกรมเพิ่มข้อมูลนิสิต

```
public static void addnewstudent () throws IOException {
    BufferedReader stdin = new BufferedReader(new
    InputStreamReader(System.in));
    String id,name,sex; //ประกาศตัวแปรสตริงเพื่อเก็บค่า
    System.out.print("Wait id : ");
    id = stdin.readLine();
    System.out.print("Wait name : ");
    name = stdin.readLine();
    System.out.print("Wait sex : ");
    sex = stdin.readLine();
    String b;
    String ar[] = new String[10];
    FileReader fin = new FileReader("student.dat");
    BufferedReader bin = new BufferedReader (fin);
```

การรับค่าผ่านทางแป้นพิมพ์

```

int i = 0;
while ((b = bin.readLine()) != null) {
    ar[i] = b;
    i = i + 1;
}
fin.close();
int tot = i;
FileOutputStream fout = new FileOutputStream("student.dat");
BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    pout.println(ar[i]);
    i = i + 1;
}
pout.println(id+","+name+","+sex);
System.out.println("Add : completely");
pout.close();
}

```

แสดงผลลัพธ์

ผลลัพธ์

```

Wait your choice [menu, bye, 0, 1, 2,
Wait id : 5908311002
Wait name : Miss Praetiwa
Wait sex : Female
Add : completely

```

```

590811001,Mr.surawit,Male
590811002,Mr.Nattawut,Male
590811003,Miss,Khuntika,Female
5908311002,Miss Praetiwa,Female

```

#### 4.2 โปรแกรมเพิ่มวิชา

```

    public static void addnewsubjects () throws IOException {
        BufferedReader stdin = new BufferedReader(new
InputStreamReader(System.in));

        String subjectid,subjectname,credit;
        System.out.print("Wait Subjects ID : ");
        subjectid = stdin.readLine();
        System.out.print("Wait Subjects Name : ");
        subjectname = stdin.readLine();
        System.out.print("Wait Credit : ");
        credit = stdin.readLine();

        String b;
        String ar[] = new String[100];
        FileReader fin = new FileReader("subject.dat");
        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("subject.dat");
        BufferedOutputStream bout = new BufferedOutputStream(fout);
        PrintStream pout = new PrintStream(bout);

        i = 0;
        while (i < tot) {
            pout.println(ar[i]);
            i = i + 1;
        }

        pout.println(subjectid + "," + subjectname + "," + credit);
    }

```

```
System.out.println("Add : completely");
pout.close(); }
```

ผลลัพธ์

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6,
Wait Subjects ID : BUSI101
Wait Subjects Name : Bussiness
Wait Credit : 2
Add : completely
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6,
```

```
BCOM361,java,3
BCOM314,MIS,3
BCOM323,PHP,mmmbv
BCOM324,PHP,3
BUSI101,Bussiness,2
```

#### 4.3 โปรแกรมเพิ่มข้อมูลการลงทะเบียน

```
public static void addnewregister () throws IOException {
    BufferedReader stdin = new BufferedReader(new
InputStreamReader(System.in));

    String registerid,subjectid,grade,sec;
    System.out.print("Wait ID : ");
    registerid = stdin.readLine();
    System.out.print("Wait subject id : ");
    subjectid = stdin.readLine();
    System.out.print("Wait Grade : ");
    grade = stdin.readLine();
    System.out.print("Wait Sec : ");
    sec = stdin.readLine();

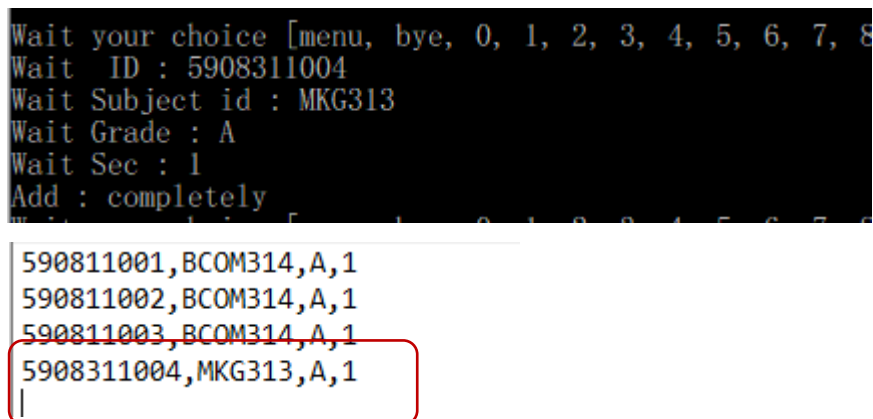
    String b;
    String ar[] = new String[100];
    FileReader fin = new FileReader("register.dat");
    BufferedReader bin = new BufferedReader (fin);
    int i = 0;
    while ((b = bin.readLine()) != null) {
```

```

ar[i] = b;
i = i + 1;
}
fin.close();
int tot = i;
FileOutputStream fout = new FileOutputStream("register.dat");
BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
pout.println(ar[i]);
i = i + 1;
}
pout.println(registerid + "," + subjectid + "," + grade + "," + sec);
System.out.println("Add : completely");
pout.close();
}

```

ผลลัพธ์



```

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8
Wait ID : 5908311004
Wait Subject id : MKG313
Wait Grade : A
Wait Sec : 1
Add : completely
590811001,BCOM314,A,1
590811002,BCOM314,A,1
590811003,BCOM314,A,1
5908311004,MKG313,A,1
|

```



## 5.โปรแกรมลบข้อมูล

### 5.1 โปรแกรมลบข้อมูลของนิสิต

```

    public static void deletestudent () 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[100];
        FileReader fin = new FileReader("student.dat");
        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.dat");
        BufferedOutputStream bout = new BufferedOutputStream(fout);
        PrintStream pout = new PrintStream(bout);
        i = 0;
        while (i < tot) {
            if (bufid.equals(ar[i].substring(0,10))) {
                System.out.println("Delete : completely");
            } else {
                pout.println(ar[i]);
            }
            i = i + 1;
        }
        pout.close();
    }

```

## 5.2 โปรแกรมลบข้อมูลวิชา

```

    public static void deletesubject () 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[100];
        FileReader fin = new FileReader("subject.dat");
        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("subject.dat");
        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 : completely");
            } else {
                pout.println(ar[i]);
            }
            i = i + 1;
        }
        pout.close();
    }

```

### 5.3 โปรแกรมลบข้อมูลการลงทะเบียน

```

    public static void deleteregister () throws IOException {
        BufferedReader stdin = new BufferedReader(new
InputStreamReader(System.in));

        String bufid;
        System.out.print("Wait Register ID : ");
        bufid = stdin.readLine();

        String b;
        String ar[] = new String[10];
        FileReader fin = new FileReader("register.dat");
        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("register.dat");
        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 : completely");
            } else {
                pout.println(ar[i]);
            }
            i = i + 1;
        }
        pout.close();
    }

```

## 6.โปรแกรมแก้ไขข้อมูล

### 6.1 โปรแกรมแก้ไขข้อมูลของนิสิต

```

    public static void editstudent () throws IOException {
        BufferedReader stdin = new BufferedReader(new
InputStreamReader(System.in));
        String studentid,studentname,sex;
        System.out.print("Wait Student ID : ");
        studentid = stdin.readLine();
        System.out.print("Wait Name : ");
        studentname = stdin.readLine();
        System.out.print("Wait Sex : ");
        sex = stdin.readLine();
        String b;
        String ar[] = new String[100];
        FileReader fin = new FileReader("student.dat");
        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.dat");
        BufferedOutputStream bout = new BufferedOutputStream(fout);
        PrintStream pout = new PrintStream(bout);
        i = 0;
        while (i < tot) {
            if (studentid.equals(ar[i].substring(0,10))) {
                pout.println(studentid + "," + studentname + "," + sex);
                System.out.println("Edit : completely");
            } else {
                pout.println(ar[i]);
            }
        }
    }

```

```

    }
    i = i + 1;
    }
    pout.close();
    }

```

## 6.2 โปรแกรมแก้ไขข้อมูลวิชา

```

    public static void editsubject () throws IOException {
        BufferedReader stdin = new BufferedReader(new
InputStreamReader(System.in));

        String subjectid,subjectname,credit;
        System.out.print("Wait Subject ID : ");
        subjectid = stdin.readLine();
        System.out.print("Wait Subject Name : ");
        subjectname = stdin.readLine();
        System.out.print("Wait Credit : ");
        credit = stdin.readLine();
        String b;
        String ar[] = new String[100];
        FileReader fin = new FileReader("subject.dat");
        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("subject.dat");
        BufferedOutputStream bout = new BufferedOutputStream(fout);
        PrintStream pout = new PrintStream(bout);
        i = 0;
        while (i < tot) {
            if (subjectid.equals(ar[i].substring(0,3))) {

```

```

pout.println(subjectid + "," + subjectname + "," + credit);
System.out.println("Edit : completely");
} else {
pout.println(ar[i]);
}
i = i + 1;
}
pout.close();
}

```

### 6.3 โปรแกรมแก้ไขข้อมูลการลงทะเบียน

```

public static void editregister () throws IOException {
    BufferedReader stdin = new BufferedReader(new
InputStreamReader(System.in));

    String registerid,subjectid,grade,sec;
    System.out.print("Wait Register ID : ");
    registerid = stdin.readLine();
    System.out.print("Wait Registe Nname : ");
    subjectid = stdin.readLine();
    System.out.print("Wait Grade : ");
    grade = stdin.readLine();
    System.out.print("Wait Sec : ");
    sec = stdin.readLine();
    String b;
    String ar[] = new String[100];
    FileReader fin = new FileReader("register.dat");
    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("register.dat");
BufferedOutputStream bout = new BufferedOutputStream(fout);
PrintStream pout = new PrintStream(bout);
i = 0;
while (i < tot) {
    if (registerid.equals(ar[i].substring(0,4))) {
        pout.println(registerid + "," + subjectid + "," + grade + "," + sec);
        System.out.println("Edit : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;
}
pout.close();
}

```

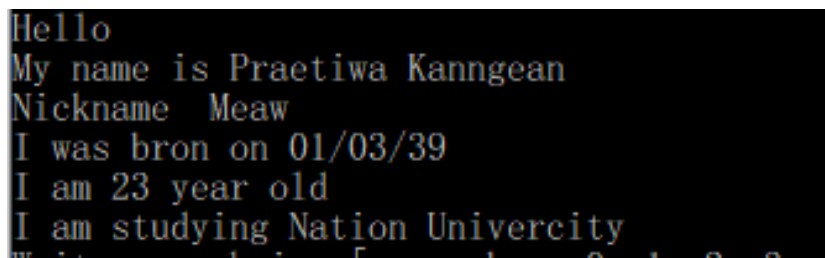
## 7. โปรแกรมแนะนำตัวผู้จัดทำโปรแกรม

```

public static void myprofile () throws IOException {
    System.out.println("Hello");
    System.out.println("My name is Praetiwa Kanngean");
    System.out.println("Nickname Meaw");
    System.out.println("I was bron on 01/03/39");
    System.out.println("I am 23 year old");
    System.out.println("I am studying Nation Univercity");
}

```

ผลลัพธ์



```

Hello
My name is Praetiwa Kanngean
Nickname Meaw
I was bron on 01/03/39
I am 23 year old
I am studying Nation Univercity

```

## 8. โปรแกรมเมนูควบคุมตัวเลือก

```

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, 13, 14, 15,
16, 17] : ";
    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"))
        {
            student();
            buf = " ";
        }

            else if (buf.equals("2"))
            {
                subject();
                buf = " ";
            }

                else if (buf.equals("3"))
                {
                    register();
                    buf = " ";
                }

                    else if (buf.equals("4") || buf.equals("l1"))

```



```

{
    list("student.dat");
    buf = " ";
}

    else if (buf.equals("5") || buf.equals("l2"))
    {
        list("subject.dat");
        buf = " ";
    }

        else if (buf.equals("6") || buf.equals("l3"))
        {
            list("register.dat");
            buf = " ";
        }

/* else if (buf.equals("7")) {
    listnum();
    buf = " ";
} else if (buf.equals("8")) {
    converttohtm();
    buf = " ";
} */

else if (buf.equals("7") || buf.equals("ast"))
{
    addnewstudent();
    buf = " ";
}

    else if (buf.equals("8") || buf.equals("asu"))
    {
        addnewssubjects();
        buf = " ";
    }

```

```
        else if (buf.equals("9") || buf.equals("are"))
        {
            addnewregister();
            buf = " ";
        }

else if (buf.equals("10") || buf.equals("dst"))
{
    deletestudent();
    buf = " ";
}

        else if (buf.equals("11") || buf.equals("dsu"))
        {
            deletesubject();
            buf = " ";
        }

        else if (buf.equals("12") || buf.equals("dre"))
        {
            deleteregister();
            buf = " ";
        }

else if (buf.equals("13") || buf.equals("est"))
{
    editstudent();
    buf = " ";
}

        else if (buf.equals("14") || buf.equals("esu"))
        {
            editsubject();
            buf = " ";
        }

        else if (buf.equals("15") || buf.equals("ere"))
```

```

        {
            editregister();
            buf = " ";
        }

else if (buf.equals("16") || buf.equals("my"))
{
    myprofile();
    buf = " ";
}

else if (buf.equals("menu") || buf.equals("m"))
{
    displaymenu();
    buf = " ";
} else {
    System.out.print(waitopt);
    buf = stdin.readLine();
    // buf = (char)System.in.read(); // for 1 character
}
}
}

// =====
static void displaymenu () {
    System.out.println("0 : bye bye");
    System.out.println("1 : Create 3 fields, 3 records for student.dat");
    System.out.println("2 : Create 3 fields, 3 records for subject.dat");
    System.out.println("3 : Create 4 fields, 4 records for register.dat");
    System.out.println("4 : List all records to Student");
    System.out.println("5 : List all records to Subject");
    System.out.println("6 : List all records to Register");
    System.out.println("7 : Add new Student");
    System.out.println("8 : Add new Subject");
}

```

```

System.out.println("9 : Add new Register");
System.out.println("10 : Delete on ID Student");
System.out.println("11 : Delete on ID Subject");
System.out.println("12 : Delete on ID Register");
System.out.println("13 : Edit data Student");
System.out.println("14 : Edit data Subject");
System.out.println("15 : Edit data Register");
System.out.println("16 : Profile of the program developer.");
System.out.println("");
}

```

ผลลัพธ์

```

C:\Program Files\Java\jdk-10.0.2\bin>java updmeaw
0 : bye bye
1 : Create 3 fields, 3 records for student.dat
2 : Create 3 fields, 3 records for subject.dat
3 : Create 4 fields, 4 records for register.dat
4 : List all records to Student
5 : List all records to Subject
6 : List all records to Register
7 : Add new Student
8 : Add new Subject
9 : Add new Register
10 : Delete on ID Student
11 : Delete on ID Subject
12 : Delete on ID Register
13 : Edit data Student
14 : Edit data Subject
15 : Edit data Register
16 : Profile of the program developer.

Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17] :

```