       งานที่ได้รับมอบหมายครั้งที่ 7 ประกอบไปด้วยโปรแกรมคำนวณเกรด, โปรแกรมคำนวณ
ภาษี, โปรแกรมคำนวณค่าคอมมิชชัน, โปรแกรมแสดงผลลัพธ์แม่สูตรคูณ โดยใช้ while และ
โปรแกรมแสดงการคำนวณของตัวเลข 2 ตัว โดยมีการคำนวณบวก ลบ คูณ และหาร

```
Work7.java - Notepad                                        —    □    ✕
File  Edit  Format  View  Help
import java.io.*;
public class Work7 {
        public static void main(String args[]) throws IOException {
                BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
                String o ;
                do{
                        System.out.println("1. Grade");
                        System.out.println("2. Tax");
                        System.out.println("3. Commission");
                        System.out.println("4. multiplication table");
                        System.out.println("5. Calculate Numbers");
                        System.out.println("0. exit");
                        o = stdin.readLine();
                        System.out.println(stdin.readLine());

                        if(o.equals("1")) {
                                grade();
                        }else if(o.equals("2")){
                                tax();
                        }else if(o.equals("3")){
                                com();
                        }else if(o.equals("4")){
                                mul();
                        }else if(o.equals("5")){
                                cal();
                        }
                }while(Integer.parseInt(o) !=0);
        }
```

```java
/*-----------grade------------*/
public static void grade() throws IOException {
BufferedReader mo = new BufferedReader(new InputStreamReader(System.in));
        String m[][] = new String[3][3];
                System.out.println("=================================================");
                System.out.println("                Calculate Grade                  ");
                System.out.println("=================================================");
                System.out.print("Name : ");
                        m[0][0] = mo.readLine();
                System.out.print("Subject : ");
                        m[0][1] = mo.readLine();
                System.out.print("Total Score : ");
                        m[0][2] = mo.readLine();
                int Score = Integer.parseInt(m[0][2]);
                String Grade;
                        if(Score >= 80){
                                Grade = "A";
                        }
                        else if(Score >= 75) {
                                Grade = "B+";
                        }
                        else if(Score >= 70) {
                                Grade = "B";
                        }
                        else if(Score >= 65) {
                                Grade = "C+";
                        }
                        else if(Score >= 60) {
                                Grade = "C";
                        }
                        else if(Score >= 55) {
                                Grade = "D+";
                        }
                        else if(Score >= 50) {
                                Grade = "D";
                        }
                        else {
                                Grade = "F";
                        }
                System.out.println("Name : " + m[0][0]);
                System.out.println("Subject : " + m[0][1]);
                System.out.println("Grade : " + Grade);
                System.out.println("=================================================");
                System.out.println("        Boonyada  Soongtiwong  5808311010        ");
                System.out.println("=================================================");
        }
```

```java
/*-----------tax------------*/
public static void tax() throws IOException {
BufferedReader mo = new BufferedReader(new InputStreamReader(System.in));
        String m[][] = new String[3][3];
                System.out.println("=================================================");
                System.out.println("                Calculate Tax Salary             ");
                System.out.println("=================================================");
                System.out.print("ID : ");
                        m[0][0] = mo.readLine();
                System.out.print("Name : ");
                        m[0][1] = mo.readLine();
                System.out.print("Salary : ");
                        m[0][2] = mo.readLine();
                int Salary = Integer.parseInt(m[0][2]);
                        double Vat, Income, Tax;
                        if(Salary >= 30000) {
                                Vat = 0.15;
                        }
                        else if(Salary >= 20000) {
                                Vat = 0.13;
                        }
                        else if(Salary >= 10000) {
                                Vat = 0.10;
                        }
                        else if(Salary >= 5000) {
                                Vat = 0.08;
                        }
                        else {
                                Vat = 0.04;
                        }
                                Tax = Salary * Vat;
                                Income = Salary - Tax;
        System.out.println("ID : " + m[0][0]);
        System.out.println("Name : " + m[0][1]);
        System.out.println("Tax : " + Tax);
        System.out.println("Salary : " + Income);
        System.out.println("=================================================");
        System.out.println("        Boonyada  Soongtiwong  5808311010        ");
        System.out.println("=================================================");
        }
```

```java
/*-----------com------------*/
public static void com() throws IOException {
BufferedReader mo = new BufferedReader(new InputStreamReader(System.in));
        String m[][] = new String[3][3];
                System.out.println("=====================================================");
                System.out.println("                    Calculate Commission             ");
                System.out.println("=====================================================");
                System.out.print("ID : ");
                        m[0][0] = mo.readLine();
                System.out.print("Name : ");
                        m[0][1] = mo.readLine();
                System.out.print("Sales : ");
                        m[0][2] = mo.readLine();
                int Sales = Integer.parseInt(m[0][2]);
                        double Com, Salary, Commission;
                        if(Sales >= 40000) {
                                Com = 0.15;
                        }
                        else if(Sales >= 30000) {
                                Com = 0.13;
                        }
                        else if(Sales >= 20000) {
                                Com = 0.10;
                        }
                        else if(Sales >= 10000) {
                                Com = 0.08;
                        }
                        else {
                                Com = 0;
                        }
                                Commission = Sales * Com;
                                Salary = Sales + Commission;
        System.out.println("ID : " + m[0][0]);
        System.out.println("Name : " + m[0][1]);
        System.out.println("Commission : " + Commission);
        System.out.println("Salary : " + Salary);
        System.out.println("=====================================================");
        System.out.println("         Boonyada  Soongtiwong  5808311010           ");
        System.out.println("=====================================================");
        }
```

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```java
/*-----------mul------------*/
        static void mul()throws IOException{
        BufferedReader stdin= new BufferedReader(new InputStreamReader(System.in));
        System.out.print("Input multiplication table : ");
                String buf=stdin.readLine();
                int i = Integer.parseInt(buf);
                int a=1;
                        while(a<=12){
                        System.out.println(i+"*"+a+"= "+i*a);
                        a++;
                        }
        System.out.println("================================================");
        System.out.println("         Boonyada  Soongtiwong  5808311010        ");
        System.out.println("================================================");
        }

/*-----------cal------------*/
        static void cal()throws IOException{
        BufferedReader stdin= new BufferedReader(new InputStreamReader(System.in));
                String a[][] = new String[1][3];
                System.out.print("Input Number1 : ");
                        a[0][0] = stdin.readLine();
                System.out.print("Input Symbol : ");
                        a[0][1] = stdin.readLine();
                System.out.print("Input Number2 : ");
                        a[0][2] = stdin.readLine();
                double x=0;
                        if(a[0][1].equals("+")){
                                x = Double.parseDouble(a[0][0])+Double.parseDouble(a[0][2]);
                        }
                        else if(a[0][1].equals("-")){
                                x = Double.parseDouble(a[0][0])-Double.parseDouble(a[0][2]);
                        }
                        else if(a[0][1].equals("*")){
                                x = Double.parseDouble(a[0][0])*Double.parseDouble(a[0][2]);
                        }
                        else if(a[0][1].equals("/")){
                                x = Double.parseDouble(a[0][0])/Double.parseDouble(a[0][2]);
                        }
                        System.out.println("Answer Is : "+x);
        System.out.println("================================================");
        System.out.println("         Boonyada  Soongtiwong  5808311010        ");
        System.out.println("================================================");
                }

}
```

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```
c:\Program Files\Java\jdk-10.0.2\bin>javac Work7.java

c:\Program Files\Java\jdk-10.0.2\bin>java Work7
1. Grade
2. Tax
3. Commission
4. multiplication table
5. Calculate Numbers
0. exit
1
1
1
===============================================
                Calculate Grade
===============================================
Name : Boonyada
Subject : Computer
Total Score : 85
Name : Boonyada
Subject : Computer
Grade : A
===============================================
        Boonyada  Soongtiwong  5808311010
===============================================
```

```
1. Grade
2. Tax
3. Commission
4. multiplication table
5. Calculate Numbers
0. exit
2
2
2
===============================================
              Calculate Tax Salary
===============================================
ID : 5808311010
Name : Boonyada
Salary : 60000
ID : 5808311010
Name : Boonyada
Tax : 9000.0
Salary : 51000.0
===============================================
        Boonyada  Soongtiwong  5808311010
===============================================
```

```
1.  Grade
2.  Tax
3.  Commission
4.  multiplication table
5.  Calculate Numbers
0.  exit
3
3
3
==================================================
              Calculate Commission
==================================================
ID : 5808311010
Name : Boonyada
Sales : 25000
ID : 5808311010
Name : Boonyada
Commission : 2500.0
Salary : 27500.0
==================================================
        Boonyada  Soongtiwong  5808311010
==================================================
```

```
1.  Grade
2.  Tax
3.  Commission
4.  multiplication table
5.  Calculate Numbers
0.  exit
4
4
4
Input multiplication table : 12
12*1= 12
12*2= 24
12*3= 36
12*4= 48
12*5= 60
12*6= 72
12*7= 84
12*8= 96
12*9= 108
12*10= 120
12*11= 132
12*12= 144
==================================================
        Boonyada  Soongtiwong  5808311010
==================================================
```

```
1. Grade
2. Tax
3. Commission
4. multiplication table
5. Calculate Numbers
0. exit
5
5
5
Input Number1 : 10
Input Symbol : *
Input Number2 : 20
Answer Is : 200.0
================================================
          Boonyada   Soongtiwong   5808311010
================================================
1. Grade
2. Tax
3. Commission
4. multiplication table
5. Calculate Numbers
0. exit
0
0
0

c:\Program Files\Java\jdk-10.0.2\bin>
```