CODE

```java
import java.io.*;
public class XXX {
    public static void main(String args[]) throws IOException {
        BufferedReader pit = new BufferedReader(new InputStreamReader(System.in));
        String o ;
        do{
            System.out.println("1. Grade Calculate");
            System.out.println("2. Commission Calculate");
            System.out.println("3. Tax Calculate");
            System.out.println("4. Multiplication Table");
            System.out.println("5. Calculate");
            System.out.println("0. Exit");
            o = pit.readLine();

            if(o.equals("1")) {
                Grade();
            }else if(o.equals("2")){
                Commission();
            }else if(o.equals("3")){
                Tax();
            }else if(o.equals("4")){
                mul();
            }else if(o.equals("5")){
                cal();
            }
        }while(Integer.parseInt(o) !=0);
    }

    public static void Grade() throws IOException {
        BufferedReader pit = new BufferedReader(new InputStreamReader(System.in));
        String a[][] = new String[3][3];
```

```java
        System.out.println("============================================================");
        System.out.println("                File X01 Is Grade Calculate");
        System.out.println("============================================================");
        System.out.println(" N A M E ");
        a[0][0] = pit.readLine();
        System.out.println(" S u b j e c t ");
        a[0][1] = pit.readLine();
        System.out.print(" Input total score : ");
        a[0][2] = pit.readLine();

            int Score = Integer.parseInt(a[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+";
            }
```

```
62              else if(Score >= 50){
63                  Grade = "D";
64              }
65              else{
66                  Grade = "F";
67              }
68
69              System.out.println("     " + a[0][0]);
70              System.out.println("     Subject " + a[0][1]);
71              System.out.println("     The Grade is " + Grade);
72              System.out.println("============================================================");
73              System.out.println("                Pittaya kanasin 5808311001");
74              System.out.println("============================================================");
75      }
76
77      public static void Commission() throws IOException {
78          BufferedReader pit = new BufferedReader(new InputStreamReader(System.in));
79          String a[][] = new String[3][3];
80          System.out.println("============================================================");
81          System.out.println("            File X02 Is Commission Calculate");
82          System.out.println("============================================================");
83          System.out.println(" N A M E ");
84          a[0][0] = pit.readLine();
85          System.out.println(" Input Employee ID ");
86          a[0][1] = pit.readLine();
87          System.out.print(" Input Amount : ");
88          a[0][2] = pit.readLine();
89
90              int Amount = Integer.parseInt(a[0][2]);
91              double Percentage, Commission, AllAmount;
```

```
92              if(Amount >= 20000){
93                  Percentage = 0.2;
94              }
95              else if(Amount >= 15000){
96                  Percentage = 0.15;
97              }
98              else if(Amount >= 10000){
99                  Percentage = 0.1;
100             }
101             else{
102                 Percentage = 0;
103             }
104
105             Commission = Percentage*Amount;
106             AllAmount = Amount + Commission;
107
108             System.out.println("     " + a[0][0]);
109             System.out.println("     " + a[0][1]);
110             System.out.println("     Commission " + Commission);
111             System.out.println("     Amount + Commission " + AllAmount);
112             System.out.println("============================================================");
113             System.out.println("                Pittaya kanasin 5808311001");
114             System.out.println("============================================================");
115     }
116
117     public static void Tax() throws IOException {
118         BufferedReader pit = new BufferedReader(new InputStreamReader(System.in));
119         String a[][] = new String[3][3];
120         System.out.println("============================================================");
121         System.out.println("              File X03 Is Tax Calculate");
```

```
122         System.out.println("============================================================");
123         System.out.println(" N A M E ");
124         a[0][0] = pit.readLine();
125         System.out.println(" Tax identification number ");
126         a[0][1] = pit.readLine();
127         System.out.print(" Input Amount : ");
128         a[0][2] = pit.readLine();
129 
130             int Amount = Integer.parseInt(a[0][2]);
131             double Percentage, Tax, AllAmount;
132             if(Amount >= 30000){
133                 Percentage = 0.15;
134             }
135             else if(Amount >= 20000){
136                 Percentage = 0.13;
137             }
138             else if(Amount >= 10000){
139                 Percentage = 0.10;
140             }
141             else if(Amount >= 5000){
142                 Percentage = 0.08;
143             }
144             else{
145                 Percentage = 0.04;
146             }
147 
148             Tax = Percentage*Amount;
149             AllAmount = Amount - Tax;
150 
151             System.out.println("     " + a[0][0]);
```

```
152             System.out.println("     " + a[0][1]);
153             System.out.println("     Tax " + Tax);
154             System.out.println("     Amount - Tax " + AllAmount);
155             System.out.println("============================================================");
156             System.out.println("               Pittaya kanasin 5808311001");
157             System.out.println("============================================================");
158     }
159 
160     static void mul() throws IOException {
161         BufferedReader pit = new BufferedReader(new InputStreamReader(System.in));
162         String a[][] = new String[3][3];
163         System.out.println("============================================================");
164         System.out.println("           File X04 Is Multiplication Table");
165         System.out.println("============================================================");
166         System.out.println(" N U M B E R ");
167         a[0][0] = pit.readLine();
168         int i = Integer.parseInt(a[0][0]);
169         int b = 1;
170         while(b<=12){
171             System.out.println(i+"*"+b+"="+i*b);
172             b++ ;
173         }
174         System.out.println("============================================================");
175         System.out.println("               Pittaya kanasin 5808311001");
176         System.out.println("============================================================");
177     }
178 
179     public static void cal()throws IOException {
180         BufferedReader pit = new BufferedReader(new InputStreamReader(System.in));
181         String a[][] = new String[3][3];
```

```
182             System.out.println("============================================================");
183             System.out.println("                  File X05 Is Calculate");
184             System.out.println("============================================================");
185             System.out.println(" N U M B E R 1 ");
186             a[0][0] = pit.readLine();
187             System.out.println(" Math Symbols ");
188             a[0][1] = pit.readLine();
189             System.out.println(" N U M B E R 2 ");
190             a[0][2] = pit.readLine();
191             double x;
192             System.out.print((a[0][0])+(a[0][1])+(a[0][2])+" = ");
193             if (a[0][1].equals("+")){
194             System.out.println(Double.parseDouble(a[0][0]) + Double.parseDouble(a[0][2]));
195             }else if (a[0][1].equals("-")){
196             System.out.println(Double.parseDouble(a[0][0]) - Double.parseDouble(a[0][2]));
197             }else if (a[0][1].equals("*")){
198             System.out.println(Double.parseDouble(a[0][0]) * Double.parseDouble(a[0][2]));
199             }else if (a[0][1].equals("/")){
200             System.out.println(Double.parseDouble(a[0][0]) / Double.parseDouble(a[0][2]));
201             }
202             System.out.println("============================================================");
203             System.out.println("               Pittaya kanasin 5808311001");
204             System.out.println("============================================================");
205         }
206     }
```

RESULT

```
d:\JDK\bin>java XXX
1. Grade Calculate
2. Commission Calculate
3. Tax Calculate
4. Multiplication Table
5. Calculate
0. Exit
1
============================================================
              File X01 Is Grade Calculate
============================================================
 N A M E
Pittaya
 S u b j e c t
Math
 Input total score : 85
     Pittaya
     Subject Math
     The Grade is A
============================================================
               Pittaya kanasin 5808311001
============================================================
```

```
1. Grade Calculate
2. Commission Calculate
3. Tax Calculate
4. Multiplication Table
5. Calculate
0. Exit
2
============================================================
            File X02 Is Commission Calculate
============================================================
 N A M E
Pittaya
 Input Employee ID
5808311111
 Input Amount : 20000
     Pittaya
     5808311111
     Commission 4000.0
     Amount + Commission 24000.0
============================================================
               Pittaya kanasin 5808311001
============================================================
```

```
1. Grade Calculate
2. Commission Calculate
3. Tax Calculate
4. Multiplication Table
5. Calculate
0. Exit
3
============================================================
              File X03 Is Tax Calculate
============================================================
 N A M E
Pittaya
 Tax identification number
1529900555555
 Input Amount : 20000
     Pittaya
     1529900555555
     Tax 2600.0
     Amount - Tax 17400.0
============================================================
              Pittaya kanasin 5808311001
============================================================
```

```
1. Grade Calculate
2. Commission Calculate
3. Tax Calculate
4. Multiplication Table
5. Calculate
0. Exit
4
============================================================
          File X04 Is Multiplication Table
============================================================
 N U M B E R
13
13*1=13
13*2=26
13*3=39
13*4=52
13*5=65
13*6=78
13*7=91
13*8=104
13*9=117
13*10=130
13*11=143
13*12=156
============================================================
              Pittaya kanasin 5808311001
============================================================
```

```
1. Grade Calculate
2. Commission Calculate
3. Tax Calculate
4. Multiplication Table
5. Calculate
0. Exit
5
============================================================
                File X05 Is Calculate
============================================================
 N U M B E R 1
5
 Math Symbols
+
 N U M B E R 2
5
5+5 = 10.0
============================================================
              Pittaya kanasin 5808311001
============================================================
```

```
1. Grade Calculate
2. Commission Calculate
3. Tax Calculate
4. Multiplication Table
5. Calculate
0. Exit
0

d:\JDK\bin>
```