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1.menu

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

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 1
Student id : 103
Student name : ppp
Add Student : completely
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 10
101,p
102,pp
103,ppp
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] :
```

3.Edit Student on id 103

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 7
Wait STUDENT id : 103
Wait STUDENT name : noraphat
Edit STUDENT : completely
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 10
101,p
102,pp
103,noraphat
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] :
```

4.Add Subject Data

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 2
Wait subj ID : 103
Wait subj name : cpsc103
Add Student : completely
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 11
101,cpsc100
102,cpsc102
103,cpsc103
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] :
```

5.Add Regist Data

```
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 3
Wait Student ID : 103
Wait Subject ID : 101
Wait Grade: C
Add Student : completely
Wait your choice [menu, bye, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12] : 12
101, 101, A
102, 102, B
103, 101, C
```

6.Code

```
finalp.java - Notepad
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import java.io.*;
import java.lang.*;
import java.util.regex.*;
class finalp{
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")) {
            buf = " ";
        }
    }
}
```

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    }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
    }
}
```

```
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    }
}

// =====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;
```

```
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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 : ");|
```

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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 Subject Data=====
public static void addreg () throws IOException {
```

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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);|
```

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    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 {}
    }
}
```

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    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) {
```

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        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);
```

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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;
    }
}
```

```
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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");
}
```

```
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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 : ");|
```

```
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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);
        System.out.println("Edit REGIST : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;|
```



```
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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);
        System.out.println("Edit REGIST : completely");
    } else {
        pout.println(ar[i]);
    }
    i = i + 1;
}
pout.close();
}
// =====
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();
}
}
```