

1.p0601

```
import java.io.*;
public class p0601 {
    public static void main (String args[]) throws IOException {
        File f = new File("c:/windows/win.ini");
        System.out.println("getName: "+f.getName());
        System.out.println("getPath: "+f.getPath());
        System.out.println("getAbsolutePath: "+f.getAbsolutePath());
        System.out.println("exists: "+f.exists());
        System.out.println("isFile: "+f.isFile());
        System.out.println("isDirectory: "+f.isDirectory());
        System.out.println("canWrite: "+f.canWrite());
        System.out.println("canRead: "+f.canRead());
        System.out.println("length: "+f.length());

        //create hello1.txt have 0 byte
        File file = new File("hello1.txt");
        boolean success = file.createNewFile(); // 0 byte

        //move hello1.txt to myregist.txt
        File file2 = new File("myregist.txt");
        success = file.renameTo(file2);

        // move myregist.txt to c:/myregist.txt
        File b = new File("c:/");
        success = file2.renameTo(new File(b, file2.getName()));

        // if (found) then delete & success = true
        success = (new File("c:/myregist.txt")).delete();
        System.out.println("Delete c:/myregist.txt : " + success); // true
    }
}
```

```
c:\Program Files\Java\jdk-10.0.2\bin>java p0601
getName: win.ini
getPath: c:\windows\win.ini
getAbsolutePath: c:\windows\win.ini
exists: true
isFile: true
isDirectory: false
canWrite: true
canRead: true
length: 92
Delete c:/myregist.txt : false
c:\Program Files\Java\jdk-10.0.2\bin>
```

2.p0602

```
import java.io.*;
public class p0602 {
    public static void main (String args[]) {
        File d = new File(args[0]);
        String n[] = d.list();
        for (int i = 0; i < n.length; i++) {
            File f = new File(args[0] + '/' + n[i]);
            System.out.println(i+" : "+n[i]+" Size="+f.length());
        }
        System.out.println("Directory: "+d.getPath());
    }
}
```

```
c:\Program Files\Java\jdk-10.0.2\bin>java p0602 "c:\p"
0 : myregist.txt Size=8
Directory: c:\p
```

3.p0603

```
import java.io.*;
public class p0603 {
    public static void main (String args[]) throws IOException {
        int n = 0;
        byte b[] = new byte[128];
        FileInputStream fin = new FileInputStream("P0603.java");
        while ((n = fin.read(b)) != -1) {
            for(int i=0;i<n;i++) System.out.print((char)b[i]);
        }
        System.out.println(n = fin.read(b)); // -1 = not found
        fin.close();
    }
}
```

```
c:\Program Files\Java\jdk-10.0.2\bin>java p0603
import java.io.*;
public class p0603 {
    public static void main (String args[]) throws IOException {
        int n = 0;
        byte b[] = new byte[128];
        FileInputStream fin = new FileInputStream("P0603.java");
        while ((n = fin.read(b)) != -1) {
            for(int i=0;i<n;i++) System.out.print((char)b[i]);
        }
        System.out.println(n = fin.read(b)); // -1 = not found
        fin.close();
    }
}-1
c:\Program Files\Java\jdk-10.0.2\bin>
```

4.p0604

```
import java.io.*;
public class p0604 {
    public static void main (String args[]) throws IOException {
        FileOutputStream fout1 = new FileOutputStream("myregist.txt");
        for(int i=0;i<256;i++) { fout1.write(i); }
        fout1.close();
        FileOutputStream fout2 = new FileOutputStream("myregistc.txt");
        for(char c='a';c<='z';c++) { fout2.write(c); }
        fout2.close();
    }
}
```



5.p0605

```
import java.io.*;
public class p0605 {
    public static void main (String args[]) throws IOException {
        FileOutputStream fout = new FileOutputStream("myregist.txt");
        for(int i=1;i<=10;i++) {
            fout.write(i+47);
            fout.write(13);
            fout.write(10);
        }
        fout.close();
        FileOutputStream foutc = new FileOutputStream("myregistc.txt");
        for(char i='a';i<='z';i++) {
            foutc.write(i); // myregistc.txt have a to z with 26 bytes
        }
        foutc.close();
    }
}
```

myregist.txt - Notepad

File Edit Format View

```
0
1
2
3
4
5
6
7
8
9
```

myregistc.txt - Notepad

File Edit Format View Help

```
abcdefghijklmnopqrstuvwxyz
```

6.p0606

```
import java.io.*;
public class p0606 {
    public static void main (String args[]) throws IOException {
        int i = 0, n = 0;
        char b[] = new char[1];
        FileReader fin = new FileReader("myregist.txt");
        while ((n = fin.read(b)) != -1) {
            System.out.println(i+" : "+b[0]);
            i = i + 1;
        }
        fin.close();
    }
}
```

```
e:\Program Files\Java\jdk-10.0.2\bin>java p0606
0 : 1
1 : 0
2 : 1
3 : ,
4 : m
5 : a
6 : t
7 : h
8 : ,
9 : 8
10 : 0
11 : ,
12 : A
13 :
14 :
15 : 1
16 : 0
17 : 2
18 : ,
19 : e
20 : n
21 : g
22 : l
23 : ,
24 : 4
25 : 9
26 : ,
27 : F
28 :
29 :
```

7.p0607

```
import java.io.*;
public class p0607 {
    public static void main (String args[]) throws IOException {
        int i = 1, n = 0;
        char b[] = new char[16];
        FileReader fin = new FileReader("myregist.txt");
        while ((n = fin.read(b)) != -1) {
            System.out.print((i-1)*16 + " - " + (i*16-1) + ":");
            System.out.print(b[0]+b[1]+b[2]+b[3]+b[4]+b[5]+b[6]+b[7]+b[8]);
            System.out.println(b[9]+b[10]+b[11]+b[12]+b[13]+b[14]+b[15]);
            i = i + 1;
        }
        fin.close();
    }
}
```

```
c:\Program Files\Java\jdk-10.0.2\bin>java p0607
0 - 15:660285
16 - 31:660253

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

8.p0608

```
import java.io.*;
public class p0608 {
    public static void main (String args[]) throws IOException {
        int i = 1;
        String b;
        FileReader fin = new FileReader("myregist.txt");
        BufferedReader bin = new BufferedReader(fin);
        // System.out.println(i = 1); // output is 1
        // System.out.println(b = bin.readLine()); // is ok
        while ((b = bin.readLine()) != null) {
            System.out.println(i + " : " + b);
            i = i + 1;
        }
        System.out.println(b = bin.readLine()); // null
        fin.close();
    }
}
```

```
c:\Program Files\Java\jdk-10.0.2\bin>java p0608
1 : 101, math, 80, A
2 : 102, engl, 49, F
null

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

9.p0701

```
import java.io.*;
public class p0701 {
    public static void main (String args[]) throws IOException {
        int i = 1;
        int tot = 0;
        String b;
        String[] fields;
        String patternStr = ","; // this var may be removed
        FileReader fin = new FileReader("myregist.txt");
        BufferedReader bin = new BufferedReader (fin);
        while ((b = bin.readLine()) != null) {
            fields = b.split(patternStr);
            System.out.println("ID : " + fields[0]);
            System.out.println("Subject : " + fields[1]);
            System.out.println("Score : " + fields[2]);
            System.out.println("Grade : " + fields[3]);
            tot = tot + Integer.parseInt(fields[2]);
            i = i + 1;
        }
        System.out.println("Total : " + tot);
        fin.close();
    }
}
```

```
c:\Program Files\Java\jdk-10.0.2\bin>java p0701
ID : 101
Subject : math
Score : 80
Grade : A
ID : 102
Subject : eng
Score : 49
Grade : F
Total : 129

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