14. Source Code from thaiall.com/class

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```
1.  // ::: โปรแกรมลำดับที่ 1
2.  class J0100 {
3.  public static void main(String args[]) {
4.  System.out.println(args.length);
5.  System.out.println(args[0]);
6.  } }
7.  // :::: โปรแกรมลำดับที่ 2
8.  class J0101 {
9.  public static void main(String args[]) {
10. boolean b = true;
11. System.out.println("boolean = "+b);
12. char y;
13. y = 'a';
14. System.out.println("character = "+y);
15. byte c;
16. c = 127;
17. System.out.println("byte = "+c);
18. short a;
19. a = 32767;
20. System.out.println("Short = "+a);
21. int x;
22. x = 2147483647;
23. System.out.println("Integer = "+x);
24. long b;
25. b = 9223372036854775807L;
26. System.out.println("long = "+b);
27. } }
28. // :::: โปรแกรมลำดับที่ 3
29. class J0102 {
30. public static void main(String args[]) {
31. float d;
32. d = 340000000000000000000000000000000000000f;
33. System.out.println("float = "+d);
34. double e;
35. e = 179000000000000000000000000000000000000000d;
36. System.out.println("double = "+e);
37. String z ="ThaiAll";
38. System.out.println("string = "+z);
39. System.out.println(z.substring(0,4));
40. System.out.println(z.substring(2,5));
41. System.out.println(z.substring(4));
42. System.out.println(z.toUpperCase());
43. System.out.println(z.toLowerCase());
44. char ar[] = new char[128];
45. ar = z.toCharArray();
46. System.out.println((char)ar[0]);
47. System.out.println(ar[0]);
48. System.out.println(ar[2] + ar[4]);
49. z = "1234.1";
50. int m = Integer.parseInt(z.substring(0,3)) + 5;
51. double n = Double.parseDouble(z) + 0.2;
52. System.out.println(m + n);
53. System.out.println(Integer.toString(m) + 5);
54. } }
55. // :::: โปรแกรมลำดับที่ 4
56. class J0201 {
57. public static void main(String args[]) {
58. int x;
59. x = 6;
```

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60. if (x > 5) System.out.println("more than 5:" + x);
61. if (x > 5 && x < 10) System.out.println("five to ten");
62. if (x > 5 || x < 10) System.out.println("all numbers");
63. if (x > 10) {
64. System.out.print("more than 10:");
65. System.out.println(x);
66. } } }
67. // :::: โปรแกรมลำดับที่ 5
68. import java.lang.*;
69. class J0202 {
70. public static void main(String args[]) {
71. int x;
72. x = 6;
73. if (x > 5) System.out.println("more than 5");
74. else System.out.println("less than or equal 5");
75. if (x > 10) System.out.println("more than 10");
76. else { System.out.println("less than or equal 10"); }
77. Comparable a[] = new Comparable[5];
78. a[0] = new Integer(3);
79. a[1] = new Integer(10);
80. a[2] = "abc";
81. System.out.println(a[0] + " " + a[1] + " " + a[2]);
82. if (a[2].equals("abc")) { System.out.println("equal"); }
83. if (a[0].compareTo(a[1]) < 0) System.out.print(a[0]); // 3
84. if (a[1].compareTo(a[0]) > 0) System.out.print(a[0]+""+a[1]); // 310
85. if (a[0].compareTo(a[0]) == 0) System.out.print("equal"); // equal
86. System.out.print(a[0].compareTo(a[1])); // -1
87. } }
88. // :::: โปรแกรมลำดับที่ 6
89. import java.util.Date;
90. class J0203 {
91. public static void main(String args[]) {
92. byte a = (byte) (new Date().getTime() % 5);
93. switch (a) {
94. case 1:
95. System.out.println("one"); break;
96. case 2:
97. System.out.println("two"); break;
98. default:
99. System.out.println("not found" + a);
100.     break;
101.     } } }
102.     // :::: โปรแกรมลำดับที่ 7
103.     class J0204 {
104.     public static void main(String args[]) {
105.     System.out.println("ASCII character :: ");
106.     for (int i=0; i<256; i++) {
107.     System.out.print((char)i + " ");
108.     // System.out.println(i);  0 - 255
109.     }
110.     String s = "thaiall";
111.     System.out.println(s + s.length());
112.     } }
113.     // :::: โปรแกรมลำดับที่ 8
114.     class J0205 {
115.     public static void main(String args[]) {
116.     System.out.println("print 1 to 10 :: ");
117.     int i;
118.     i = -5;
119.     while (i <= 5) {
120.     try {
```

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121.    i++;
122.    System.out.println((double)5/i); //Infinity
123.    System.out.println(5/i); //catch ok
124.    }
125.    catch (ArithmeticException e) {
126.    System.out.println("may divide by zero");
127.    } }
128.    int k = 0;
129.    i = 0;
130.    while (i < 5) {
131.    System.out.print(++k);
132.    k = k + (i++);
133.    System.out.print(k--);
134.    } }
135.    }// ::: โปรแกรมลำดับที่ 9
136.    class J0206 {
137.    public static void main(String args[]) {
138.    System.out.println("print 1 to 10 :: ");
139.    int i;
140.    i = 1;
141.    try {
142.    do {
143.    System.out.println(i);
144.    i++;
145.    } while (i <= 10);
146.    }
147.    catch (ArrayIndexOutOfBoundsException e) {
148.    System.out.println("over index of array");
149.    } } }
150.    // ::: โปรแกรมลำดับที่ 10
151.    import java.io.*;
152.    class J0301 {
153.    public static void main(String args[]) throws IOException {
154.    char buf;
155.    buf = (char)System.in.read();
156.    System.out.println("Output is "+buf);
157.    } }
158.    // ::: โปรแกรมลำดับที่ 11
159.    import java.io.*;
160.    class J0302 {
161.    public static void main(String args[]) throws IOException {
162.    char buf1,buf2;
163.    buf1 = (char)System.in.read();
164.    buf2 = (char)System.in.read();
165.    System.out.println("Output is "+buf1+buf2);
166.    } }
167.    // ::: โปรแกรมลำดับที่ 12
168.    import java.io.*;
169.    class J0303 {
170.    public static void main(String args[]) throws IOException {
171.    System.out.println("Get until receive 0 [hidden is 13, 10]");
172.    char buf;
173.    do {
174.    buf = (char)System.in.read();
175.    System.out.println("Output is "+buf);
176.    } while (buf != '0');
177.    } }
178.    // ::: โปรแกรมลำดับที่ 13
179.    import java.io.*;
180.    class J0304 {
181.    public static void main(String args[]) throws IOException {
```

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182.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
183.    String buf;
184.    int i1,i2,i3;
185.    buf = stdin.readLine();
186.    i1 = Integer.parseInt(buf);
187.    buf = stdin.readLine();
188.    i2 = Integer.parseInt(buf);
189.    i3 = i1 + i2;
190.    System.out.println("Output is "+i1+" + "+i2+" = "+i3);
191.    } }
192.    // ::: โปรแกรมลำดับที่ 14
193.    import java.io.*;
194.    class J0305 {
195.    public static void main(String args[]) throws IOException {
196.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
197.    String buf;
198.    int i;
199.    System.out.println("Get until receive 0");
200.    do {
201.    buf = stdin.readLine();
202.    i = Integer.parseInt(buf);
203.    System.out.println("Output is "+i);
204.    } while (i != 0);
205.    } }
206.    // :::: โปรแกรมลำดับที่ 15
207.    class J0401 {
208.    public static void main(String args[]) {
209.    sub1(); sub2(); sub1();
210.    }
211.    static void sub1() {
212.    System.out.print("x");
213.    }
214.    static void sub2() { System.out.print("y"); }
215.    }
216.    // :::: โปรแกรมลำดับที่ 16
217.    class J0402 {
218.    public static void main(String args[]) {
219.    int s = 0;
220.    s = sub(2,8,s);
221.    s = sub(7,3,s);
222.    s = sub(4,6,s);
223.    System.out.println("Sum = "+s);
224.    }
225.    public static int sub(int x, int y, int z) {
226.    int a = y + x + z;
227.    return (a + y + x + z);
228.    } }
229.    // ::: โปรแกรมลำดับที่ 17
230.    class J0403 {
231.    public static void main(String args[]) {
232.    int j = 3;
233.    System.out.println(doubleofnumber(j));
234.    }
235.    static int doubleofnumber(int i) {
236.    i = i * 2;
237.    return (i);
238.    }
239.    }
240.    // :::: โปรแกรมลำดับที่ 18
241.    class sub01 {
242.    void subx() {
```

```
243.    System.out.println("subx in sub01");
244.    }}
245.    class sub02 {
246.    void subx() {
247.    System.out.println("subx in sub02");
248.    }}
249.    class J0404 extends sub02 {
250.    j0404() {
251.    super.subx();
252.    this.subx();
253.    }
254.    public static void main(String args[]) {
255.    sub01 x = new sub01();
256.    System.out.println("main");
257.    x.subx();        // subx in sub01
258.    j0404 y = new j0404();
259.    }
260.    void subx() {
261.    System.out.println("subx in main");
262.    }}
263.    // ::: โปรแกรมลำดับที่ 19
264.    class J0501 {
265.    public static void main(String args[]) {
266.    int x[] = {4,18,12};
267.    System.out.println("Amount of array = " + x.length);
268.    for (int i = 0; i < x.length; i++) {
269.    System.out.println("element "+i+" = "+x[i]);
270.    }}}
271.    // ::: โปรแกรมลำดับที่ 20
272.    class J0502 {
273.    public static void main(String args[]) {
274.    String a[][] = new String[2][3];
275.    a[0][0] = "101";
276.    a[0][1] = "102";
277.    a[0][2] = "103";
278.    int i = 0;
279.    a[1][i++] = "tom";
280.    a[1][i++] = "dang";
281.    a[1][i++] = "boy";
282.    for (i = 0; i < a[0].length; i++) {
283.    System.out.println("element of 0,"+i+" = "+a[0][i]);
284.    }
285.    for (i = 0; i < a[1].length; i++) {
286.    System.out.println("element of 1,"+i+" = "+a[1][i]);
287.    }}}
288.    // :::: โปรแกรมลำดับที่ 21
289.    import java.io.*;
290.    class J0601 {
291.    public static void main (String args[]) throws IOException {
292.    File f = new File("j0601.java");
293.    System.out.println("getName: "+f.getName());
294.    System.out.println("getPath: "+f.getPath());
295.    System.out.println("getAbsolutePath: "+f.getAbsolutePath());
296.    System.out.println("exists: "+f.exists());
297.    System.out.println("isFile: "+f.isFile());
298.    System.out.println("isDirectory: "+f.isDirectory());
299.    System.out.println("canWrite: "+f.canWrite());
300.    System.out.println("canRead: "+f.canRead());
301.    System.out.println("length: "+f.length());
302.    File file = new File("hello.txt");
303.    boolean success = file.createNewFile();
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304.    File file2 = new File("hello.java");
305.    success = file.renameTo(file2);
306.    File b = new File("c:/");
307.    success = file2.renameTo(new File(b, file2.getName()));
308.    success = (new File("hello.java")).delete();
309.    System.out.println(success); // false
310.    }}
311.    // ::: โปรแกรมลำดับที่ 22
312.    import java.io.*;
313.    class J0602 {
314.    public static void main (String args[]) {
315.    File d = new File(args[0]);
316.    String n[] = d.list();
317.    for (int i = 0; i<n.length; i++) {
318.    File f = new File(args[0] + '/' + n[i]);
319.    System.out.println(i+" : "+n[i]+" Size="+f.length());
320.    }
321.    System.out.println("directory: "+d.getPath());
322.    }}
323.    // :::: โปรแกรมลำดับที่ 23
324.    import java.io.*;
325.    class J0603 {
326.    public static void main (String args[]) throws IOException {
327.    int n = 0;
328.    byte b[] = new byte[128];
329.    FileInputStream fin = new FileInputStream("j0603.java");
330.    while ((n = fin.read(b)) != -1) {
331.    for(int i=0;i<n;i++) System.out.print((char)b[i]);
332.    }
333.    System.out.println(n = fin.read(b)); // -1
334.    fin.close();
335.    }}
336.    // :::: โปรแกรมลำดับที่ 24
337.    import java.io.*;
338.    class J0604 {
339.    public static void main (String args[]) throws IOException {
340.    FileOutputStream fout = new FileOutputStream("tmp.txt");
341.    for(int i=0;i<256;i++) {
342.    fout.write(i);
343.    }
344.    fout.close();
345.    }}
346.    // :::: โปรแกรมลำดับที่ 25
347.    import java.io.*;
348.    class J0605 {
349.    public static void main (String args[]) throws IOException {
350.    FileOutputStream fout = new FileOutputStream("tmp.txt");
351.    for(int i=1;i<=10;i++) {
352.    fout.write(i+47);
353.    fout.write(13);
354.    fout.write(10);
355.    }
356.    fout.close();
357.    }}
358.    // ::: โปรแกรมลำดับที่ 26
359.    import java.io.*;
360.    class J0606 {
361.    public static void main (String args[]) throws IOException {
362.    int i = 0, n = 0;
363.    char b[] = new char[1];
364.    FileReader fin = new FileReader("tmp.txt");
```

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365.    while ((n =  fin.read(b)) != -1) {
366.    System.out.println(i+" : "+b[0]);
367.    i = i + 1;
368.    }
369.    fin.close();
370.    } }
371.    // :::: โปรแกรมลำดับที่ 27
372.    import java.io.*;
373.    class J0607 {
374.    public static void main (String args[]) throws IOException {
375.    int i = 1, n = 0;
376.    char b[] = new char[16];
377.    FileReader fin = new FileReader("tmp.txt");
378.    while ((n =  fin.read(b)) != -1) {
379.    System.out.print((i-1)*16 + " - " + (i*16-1) + ":");
380.    System.out.print(b[0]+b[1]+b[2]+b[3]+b[4]+b[5]+b[6]+b[7]+b[8]);
381.    System.out.println(b[9]+b[10]+b[11]+b[12]+b[13]+b[14]+b[15]);
382.    i = i + 1;
383.    }
384.    fin.close();
385.    } }
386.    // :::: โปรแกรมลำดับที่ 28
387.    import java.io.*;
388.    class J0608 {
389.    public static void main (String args[]) throws IOException {
390.    int i = 1;
391.    String b;
392.    FileReader fin = new FileReader("data.txt");
393.    BufferedReader bin = new BufferedReader (fin);
394.    // System.out.println(b = bin.readLine()); // output is b
395.    while ((b =  bin.readLine()) != null) {
396.    System.out.println(i + " : " +b);
397.    i = i + 1;
398.    }
399.    System.out.println(b = bin.readLine()); // null
400.    fin.close();
401.    } }
402.    // :::: โปรแกรมลำดับที่ 29
403.    import java.io.*;
404.    class J0701 {
405.    public static void main (String args[]) throws IOException {
406.    int i = 1;
407.    int tot = 0;
408.    String b;
409.    String[] fields;
410.    String patternStr = ",";
411.    FileReader fin = new FileReader("data.txt");
412.    BufferedReader bin = new BufferedReader (fin);
413.    while ((b =  bin.readLine()) != null) {
414.    fields = b.split(patternStr);
415.    System.out.println(i + " : " + fields[0]);
416.    System.out.println("Name : " + fields[1]);
417.    System.out.println("Salary : " + fields[2]);
418.    System.out.println("Status : " + fields[3]);
419.    tot = tot + Integer.parseInt(fields[2]);
420.    i = i + 1;
421.    }
422.    System.out.println("Total : " + tot);
423.    fin.close();
424.    } }
425.    // :::: โปรแกรมลำดับที่ 30
```

```java
426.    import java.io.*;
427.    import java.lang.*;
428.    class J0702 {
429.    public static void main (String args[]) throws IOException {
430.    int i = 1;
431.    String b;
432.    String[] fields;
433.    String patternStr = ",";
434.    FileReader fin = new FileReader("data.txt");
435.    BufferedReader bin = new BufferedReader (fin);
436.    FileOutputStream fout = new FileOutputStream("data.htm");
437.    BufferedOutputStream bout = new BufferedOutputStream(fout);
438.    PrintStream pout = new PrintStream(bout);
439.    pout.println("<body bgcolor=yellow><table border=1 width=100%>");
440.    while ((b =  bin.readLine()) != null) {
441.    fields = b.split(patternStr);
442.    pout.println("<tr>");
443.    pout.println("<td>"+i+"</td>");
444.    pout.println("<td>"+"ID = " + fields[0]+"</td>");
445.    pout.println("<td>"+"Name = " + fields[1]+"</td>");
446.    pout.println("<td>"+"Salary = " + fields[2]+"</td>");
447.    pout.println("<td>"+"Status = " + fields[3]+"</td>");
448.    pout.println("</tr>");
449.    i = i + 1;
450.    }
451.    pout.println("</table></body>");
452.    fin.close();
453.    pout.close();
454.    } }
455.    // ::: โปรแกรมลำดับที่ 31
456.    import java.io.*;
457.    class J0703 {
458.    public static void main (String args[]) throws IOException {
459.    int i = 0,d;
460.    String b;
461.    String[] fields;
462.    String[] recs = {"","",""};
463.    String patternStr = ",";
464.    FileReader fin = new FileReader("data.txt");
465.    BufferedReader bin = new BufferedReader (fin);
466.    while ((b =  bin.readLine()) != null) {
467.    recs[i] = b;
468.    i = i + 1;
469.    }
470.    fin.close();
471.    FileOutputStream fout = new FileOutputStream("data.htm");
472.    BufferedOutputStream bout = new BufferedOutputStream(fout);
473.    PrintStream pout = new PrintStream(bout);
474.    for(int j=0;j<i;j++) {
475.    fields = recs[j].split(patternStr);
476.    pout.print(fields[0]+","+fields[1]+",");
477.    d = Integer.valueOf(fields[2]).intValue() + 100;
478.    pout.print(d);
479.    pout.println(","+fields[3]);
480.    }
481.    pout.close();
482.    } }
483.    // :::: โปรแกรมลำดับที่ 32
484.    import java.io.*;
485.    class J0801 {
486.    public static void main (String args[]) throws IOException {
```

```
487.    int found=0;
488.    char buf;
489.    String b,g = "";
490.    String[] fields;
491.    String patternStr = ",";
492.    System.out.println("Wait id and end character with [x]");
493.    buf = (char)System.in.read();
494.    while (buf != 'x') {
495.    g = g + buf;
496.    buf = (char)System.in.read();
497.    }
498.    FileReader fin = new FileReader("data.txt");
499.    BufferedReader bin = new BufferedReader (fin);
500.    while ((b =  bin.readLine()) != null) {
501.    fields = b.split(patternStr);
502.    if (fields[0].equals(g)) {
503.    System.out.println(fields[1]);
504.    found = 1;
505.    }}
506.    if (found == 0) System.out.println("Not found");
507.    fin.close();
508.    }}
509.    // :::: โปรแกรมลำดับที่ 33
510.    import java.io.*;
511.    class J0802 {
512.    public static void main (String args[]) throws IOException {
513.    int found=0;
514.    String b,g = "";
515.    String[] fields;
516.    System.out.println("Wait string and enter");
517.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
518.    g = stdin.readLine();
519.    String patternStr = g;
520.    FileReader fin = new FileReader("data.txt");
521.    BufferedReader bin = new BufferedReader (fin);
522.    while ((b =  bin.readLine()) != null) {
523.    fields = b.split(patternStr);
524.    if (fields.length > 1) {
525.    fields = b.split(",");
526.    System.out.println(fields[0] + fields[1] + fields[2] + fields[3]);
527.    found = 1;
528.    }}
529.    if (found == 0) System.out.println("Not found");
530.    fin.close();
531.    }}
532.    // :::: โปรแกรมลำดับที่ 34
533.    import java.io.*;
534.    class J0901 {
535.    public static void main (String args[]) throws IOException {
536.    int i = 0,t1,t2;
537.    String b,status;
538.    String fields[];
539.    String[] recs1 = new String[10];
540.    String[] recs2 = {"A,Active","R,Retire"};
541.    String patternStr = ",";
542.    FileReader fin = new FileReader("data.txt");
543.    BufferedReader bin = new BufferedReader (fin);
544.    while ((b =  bin.readLine()) != null) {
545.    recs1[i] = b;
546.    i = i + 1;
547.    }
```

```
548.    fin.close();
549.    t1 = i;
550.    t2 = recs2.length;
551.    for(int j=0;j<t1;j++) {
552.    fields = recs1[j].split(patternStr);
553.    System.out.print(fields[0] + fields[1] + fields[2]+fields[3]);
554.    status = fields[3];
555.    for(int k=0;k<t2;k++) {
556.    fields = recs2[k].split(patternStr);
557.    if (fields[0].equals(status)) {
558.    System.out.println(fields[1]);
559.    }}}}}
560.    // :::: โปรแกรมลำดับที่ 35
561.    import java.io.*;
562.    class J0902 {
563.    public static void main (String args[]) throws IOException {
564.    int i = 0,t1,t2;
565.    String b,status;
566.    String[] fields;
567.    String[] recs1 = {"","","","","",""};
568.    String[] recs2 = new String[2];
569.    FileReader fin = new FileReader("data.txt");
570.    BufferedReader bin = new BufferedReader (fin);
571.    while ((b =  bin.readLine()) != null) {
572.    recs1[i] = b;
573.    i = i + 1;
574.    }
575.    fin.close();
576.    t1 = i;
577.    i = 0;
578.    FileReader fin2 = new FileReader("datas.txt");
579.    BufferedReader bin2 = new BufferedReader (fin2);
580.    while ((b =  bin2.readLine()) != null) {
581.    recs2[i] = b;
582.    i = i + 1;
583.    }
584.    fin2.close();
585.    t2 = i;
586.    for(int j=0;j<t1;j++) {
587.    fields = recs1[j].split(",");
588.    System.out.print(fields[0] + fields[1] + fields[2]+fields[3]);
589.    status = fields[3];
590.    for(int k=0;k<t2;k++) {
591.    fields = recs2[k].split(",");
592.    if (fields[0].equals(status)) {
593.    System.out.println(fields[1]);
594.    }}}}}
595.    // ::: โปรแกรมลำดับที่ 36
596.    class J1001 {
597.    public static void main (String args[]) {
598.    int tmp,x[] = {5,6,1,2,9,12,9,3};
599.    for(int i=1;i<x.length;i++) {
600.    for(int j=x.length-1;j>=i;j--) {
601.    if(x[j-1] > x[j]) {
602.    tmp = x[j];
603.    x[j] = x[j-1];
604.    x[j-1] = tmp;
605.    }}}
606.    for(int i=0;i<x.length;i++) {
607.    System.out.println(x[i]);
608.    }}}
```

```
609.    // ::: โปรแกรมลำดับที่ 37
610.    import java.lang.*;
611.    class J1002 {
612.    public static void main (String args[]) {
613.    String tmp,x[] = {"ac","abc","adb","a","aa","acd","a a","a d"};
614.    System.out.println("Before sorting");
615.    prtlist(x);
616.    for(int i=1;i<x.length;i++) {
617.    for(int j=x.length-1;j>=i;j--) {
618.    if(x[j-1].compareTo(x[j])>0) {
619.    tmp = x[j];
620.    x[j] = x[j-1];
621.    x[j-1] = tmp;
622.    } } }
623.    System.out.println("After sorting");
624.    prtlist(x);
625.    }
626.    public static void prtlist(String[] x) {
627.    for(int i=0;i<x.length;i++) {
628.    System.out.println(x[i]);
629.    } } }
630.    // :::: โปรแกรมลำดับที่ 38
631.    import java.applet.*;
632.    import java.awt.*;
633.    public class J1101 extends java.applet.Applet {
634.    public void paint(Graphics g) {
635.    g.setColor(new Color(240,240,240));
636.    g.drawString("test",10,20);
637.    } }
638.    // :::: โปรแกรมลำดับที่ 39
639.    import java.applet.*;
640.    import java.awt.*;
641.    public class J1102 extends Applet {
642.    int i,j;
643.    String istr,p;
644.    public void init() {
645.    setBackground(Color.yellow);
646.    p = getParameter("x");
647.    }
648.    public void paint(Graphics g) {
649.    g.setColor(Color.black);
650.    g.drawString(p,0,10);
651.    i = 1;
652.    while (i <= 10) {
653.    j = 10 * i;
654.    istr= Integer.toString(i);
655.    g.drawString(istr,72,j);
656.    i++;
657.    } } }
658.    // :::: โปรแกรมลำดับที่ 40
659.    import java.applet.*;
660.    import java.awt.*;
661.    public class J1103 extends Applet implements Runnable{
662.    Thread timer;
663.    int row = 10;
664.    public void paint(Graphics g) {
665.    row = row + 2;
666.    g.drawLine(5,row,30,row);
667.    }
668.    public void start() {
669.    timer = new Thread(this);
```

```
670.    timer.start();
671.    }
672.    public void run() {
673.    Thread me = Thread.currentThread();
674.    while (timer == me) {
675.    try {
676.    Thread.currentThread().sleep(1000);
677.    } catch (InterruptedException e) { }
678.    repaint();
679.    } } }
680.    // :::: โปรแกรมลำดับที่ 41
681.    import java.applet.*;
682.    import java.awt.*;
683.    public class J1104 extends Applet {
684.    Image img;
685.    public void init() {
686.    setBackground(Color.green);
687.    img = getImage(getDocumentBase(),"x.gif");
688.    }
689.    public void paint(Graphics g) {
690.    g.setColor(Color.black);
691.    g.drawLine(5,10,30,40);
692.    g.drawRect(50,50,80,80);
693.    g.drawOval(50,50,20,30);
694.    g.setColor(Color.white);
695.    g.fillOval(50,50,20,30);
696.    g.setColor(Color.red);
697.    g.drawArc(40,30,55,55,0,120);
698.    int[] x={0,80,100,5,10};
699.    int[] y={0,50,80,80,30};
700.    g.drawPolygon(x,y,5);
701.    g.drawImage(img, 0, 200, this);
702.    } }
703.    // :::: โปรแกรมลำดับที่ 42
704.    import java.applet.*;
705.    import java.awt.*;
706.    import java.awt.event.*;
707.    public class J1105 extends Applet implements ActionListener {
708.    Button b1 = new Button("1");
709.    Label l1 = new Label("Hello");
710.    TextField t1 = new TextField("1");
711.    int row = 10;
712.    public void paint(Graphics g) {
713.    row = row + 10;
714.    g.drawLine(5,row,30,row);
715.    }
716.    public void init() {
717.    setBackground(Color.red);
718.    add(l1);
719.    add(b1);
720.    add(t1);
721.    t1.addActionListener(this);
722.    b1.addActionListener(this);
723.    }
724.    public void actionPerformed(ActionEvent e) {
725.    int intb1 = Integer.parseInt(e.getActionCommand());
726.    intb1 = intb1 + 1;
727.    String s = Integer.toString(intb1);
728.    l1.setText(s);
729.    b1.setLabel(s);
730.    t1.setText(s);
```

```
731.    repaint();
732.    }}
733.    // :::: โปรแกรมลำดับที่ 43
734.    import java.io.*;
735.    class J1201 {
736.    public static void main(String args[]) throws IOException {
737.    int buf=49;
738.    while (buf != 51) {
739.    if (buf >= 49 && buf <= 51) {
740.    System.out.println("What is your option?");
741.    System.out.println("1. print 1 to 10");
742.    System.out.println("2. print 'ok'");
743.    System.out.println("3. exit");
744.    }
745.    buf = System.in.read();
746.    switch (buf) {
747.    case 49: // character 1
748.    for (int i=1;i<=10;i++) {
749.    System.out.println(i);
750.    }
751.    break;
752.    case 50: System.out.println("ok");
753.    break;
754.    case 51: break;
755.    case 13: break;
756.    case 10: break;
757.    default:
758.    System.out.println("Nothing to do");
759.    break;
760.    }}
761.    System.out.println("See you again");
762.    }}
763.    // :::: โปรแกรมลำดับที่ 44
764.    import java.io.*;
765.    class J1202 {
766.    public static void main(String args[]) throws IOException {
767.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
768.    String buf=" ";
769.    while (!buf.equals("3")) {
770.    System.out.println("What is your option?");
771.    System.out.println("1. print 1 to 10");
772.    System.out.println("2. print 'ok'");
773.    System.out.println("3. exit");
774.    buf = stdin.readLine();
775.    if (buf.equals("1"))
776.    for (int i=1;i<=10;i++) System.out.println(i);
777.    if (buf.equals("2")) System.out.println("ok");
778.    }
779.    System.out.println("See you again");
780.    }}
781.    // :::: โปรแกรมลำดับที่ 45
782.    import java.io.*;
783.    class J1203 {
784.    public static void main(String args[]) throws IOException {
785.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
786.    String buf=" ";
787.    while (!buf.equals("3")) {
788.    System.out.println("What is your option?");
789.    System.out.println("1. print 1 to 10");
790.    System.out.println("2. print 'ok'");
791.    System.out.println("3. exit");
```

```
792.     buf = stdin.readLine();
793.     if (buf.equals("1")) oho1();
794.     if (buf.equals("2")) { oho2(); }
795.     }
796.     System.out.println("See you again");
797.     }
798.     public static void oho1() {
799.     for (int i=1;i<=10;i++) {
800.     System.out.println(i);
801.     } }
802.     public static void oho2() {
803.     System.out.println("ok");
804.     } }
805.     import java.io.*;
806.     class Pollweb {
807.     public static void main (String args[]) throws IOException {
808.     int i=0;
809.     int questionhave = 14;
810.     int q[] = new int[questionhave];
811.     String b;
812.     String[] fields;
813.     String patternStr = ",";
814.     FileReader fin = new FileReader("pollweb.txt");
815.     BufferedReader bin = new BufferedReader (fin);
816.     while ((b =  bin.readLine()) != null) {
817.     fields = b.split(patternStr);
818.     for (int j=1;j<=questionhave-1;j++)
819.     q[j]+= Integer.parseInt(fields[j]);
820.     i = i + 1;
821.     }
822.     System.out.println("Total questions: " + i);
823.     for (int j=1;j<=questionhave-1;j++)
824.     System.out.println(j+":"+q[j]+" | "+(q[j] * 100 / i)+"%");
825.     fin.close();
826.     } }
827.     class Hello1 {
828.     public static void main(String args[]) {
829.     System.out.println("hello");
830.     } }
831.     import java.lang.*;
832.     import java.applet.*;
833.     import java.awt.Graphics;
834.     public class Hello2 extends java.applet.Applet {
835.     public void paint(Graphics g){
836.     g.drawString("hello",10,10);
837.     } }
838.     class Pyramid01 {
839.     public static void main(String args[]) {
840.     int k = 4;
841.     for (int i=1;i<=k;i++) {
842.     for (int j=2;j<=i;j++) { System.out.print(" "); }
843.     System.out.print(i+""+i);
844.     for (int j=k;j>=(i+1);j--) { System.out.print("**"); }
845.     System.out.println(i+""+i);
846.     } } }
847.     class Pyramid02 {
848.     public static void main(String args[]) {
849.     int k = 4;
850.     for (int i=1;i<=k;i++) {
851.     for (int j=i;j<=(i+2);j++) { System.out.print(j); }
852.     for (int j=1;j<=(2+i);j++) { System.out.print("*"); }
```

```java
853.    System.out.println();
854.    } } }
855.    class Pyramid03 {
856.    public static void main(String args[])   {
857.    int k = 4;
858.    for (int i=1;i<=k;i++) {
859.    System.out.print(i+""+(i+4));
860.    for (int j=1;j<=(4+i);j++) {
861.    System.out.print("*");
862.    }
863.    System.out.println();
864.    } } }
865.    class Pyramid04 {
866.    public static void main(String args[]) {
867.    int k = 4;
868.    for (int i=1;i<=k;i++) {
869.    for (int j=1;j<=i;j++) { System.out.print("*"); }
870.    for (int j=i;j>=2;j--) { System.out.print(j); }
871.    for (int j=1;j<=i;j++) { System.out.print(j); }
872.    System.out.println();
873.    } } }
```