14. Source Code from thaiall.com/class

นางสาวสุวัจนีย์ ปัญญาภู

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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]);   // abc

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. }

29. // :::: โปรแกรมลำดับที่ 3
```

```java
30. class J0102 {
31. public static void main(String args[]) {
32. float d;
33. d = 3400000000000000000000000000000000000f;
34. System.out.println("float = "+d);
35. double e;
36. e = 179000000000000000000000000000000000000d;
37. System.out.println("double = "+e);
38. String z ="ThaiAll";
39. System.out.println("string = "+z);
40. System.out.println(z.substring(0,4));  // Thai
41. System.out.println(z.substring(2,5));  // aiA
42. System.out.println(z.substring(4));    // All
43. System.out.println(z.toUpperCase());   // THAIALL
44. System.out.println(z.toLowerCase());   // thaiall
45. char ar[] = new char[128];
46. ar = z.toCharArray();
47. System.out.println((char)ar[0]);      // T
48. System.out.println(ar[0]);            // T
49. System.out.println(ar[2] + ar[4]);    // 162 (97 + 65)
50. z = "1234.1";
51. int m = Integer.parseInt(z.substring(0,3)) + 5;  // 123 + 5
52. double n = Double.parseDouble(z) + 0.2;        // 1234.3
53. System.out.println(m + n);         // 128 + 1234.3 = 1362.3
54. System.out.println(Integer.toString(m) + 5);     // 1285
55. }}
56. // :::: โปรแกรมลำดับที่ 4
57. class J0201 {
58. public static void main(String args[]) {
59. int x;
```

```java
60.   x = 6;
61.   if (x > 5) System.out.println("more than 5:" + x);
62.   if (x > 5 && x < 10) System.out.println("five to ten");
63.   if (x > 5 || x < 10) System.out.println("all numbers");
64.   if (x > 10) {
65.   System.out.print("more than 10:");
66.   System.out.println(x);
67.   }}}
68.   // :::: โปรแกรมลำดับที่ 5
69.   import java.lang.*;
70.   class J0202 {
71.   public static void main(String args[]) {
72.   int x;
73.   x = 6;
74.   if (x > 5) System.out.println("more than 5");
75.   else System.out.println("less than or equal 5");
76.   if (x > 10) System.out.println("more than 10");
77.   else { System.out.println("less than or equal 10"); }
78.   Comparable a[] = new Comparable[5];
79.   a[0] = new Integer(3);
80.   a[1] = new Integer(10);
81.   a[2] = "abc";
82.   System.out.println(a[0] + " " + a[1] + " " + a[2]);
83.   if (a[2].equals("abc")) { System.out.println("equal"); }
84.   if (a[0].compareTo(a[1]) < 0) System.out.print(a[0]); // 3
85.   if (a[1].compareTo(a[0]) > 0) System.out.print(a[0]+""+a[1]); // 310
86.   if (a[0].compareTo(a[0]) == 0) System.out.print("equal"); // equal
87.   System.out.print(a[0].compareTo(a[1])); // -1
88.   }}
89.   // :::: โปรแกรมลำดับที่ 6
```

```java
90.  import java.util.Date;
91.  class J0203 {
92.  public static void main(String args[]) {
93.  byte a = (byte) (new Date().getTime() % 5);
94.  switch (a) {
95.  case 1:
96.  System.out.println("one"); break;
97.  case 2:
98.  System.out.println("two"); break;
99.  default:
100.     System.out.println("not found" + a);
101.     break;
102.     }}}
103.     // ::::: โปรแกรมลำดับที่ 7
104.     class J0204 {
105.     public static void main(String args[]) {
106.     System.out.println("ASCII character :: ");
107.     for (int i=0; i<256; i++) {
108.     System.out.print((char)i + " ");
109.     }
110.     String s = "thaiall";
111.     System.out.println(s + s.length());
112.     }
113.     }
114.     // ::::: โปรแกรมลำดับที่ 8
115.     class J0205 {
116.     public static void main(String args[]) {
117.     System.out.println("print 1 to 10 :: ");
118.     int i;
119.     i = -5;
```

```java
120.    while (i <= 5) {
121.    try {
122.    i++;
123.    System.out.println((double)5/i); //Infinity
124.    System.out.println(5/i); //catch ok
125.    }
126.    catch (ArithmeticException e) {
127.    System.out.println("may divide by zero");
128.    }
129.    }
130.    int k = 0;
131.    i = 0;
132.    while (i < 5) {
133.    System.out.print(++k);
134.    k = k + (i++);
135.    System.out.print(k--);
136.    } // 11122447711
137.    }
138.    }// ::: โปรแกรมลำดับที่ 9
139.    class J0206 {
140.    public static void main(String args[]) {
141.    System.out.println("print 1 to 10 :: ");
142.    int i;
143.    i = 1;
144.    try {
145.    do {
146.    System.out.println(i);
147.    i++;
148.    } while (i <= 10);
149.    }
```

```
150.    catch (ArrayIndexOutOfBoundsException e) {
151.    System.out.println("over index of array");
152.    }}}
153.    // ::: โปรแกรมลำดับที่ 10
154.    import java.io.*;
155.    class J0301 {
156.    public static void main(String args[]) throws IOException {
157.    char buf;
158.    buf = (char)System.in.read();
159.    System.out.println("Output is "+buf);
160.    }}
161.    // ::: โปรแกรมลำดับที่ 11
162.    import java.io.*;
163.    class J0302 {
164.    public static void main(String args[]) throws IOException {
165.    char buf1,buf2;
166.    buf1 = (char)System.in.read();
167.    buf2 = (char)System.in.read();
168.    System.out.println("Output is "+buf1+buf2);
169.    }}
170.    // ::: โปรแกรมลำดับที่ 12
171.    import java.io.*;
172.    class J0303 {
173.    public static void main(String args[]) throws IOException {
174.    System.out.println("Get until receive 0 [hidden is 13, 10]");
175.    char buf;
176.    do {
177.    buf = (char)System.in.read();
178.    System.out.println("Output is "+buf);
179.    } while (buf != '0');
```

```
180.    }}
181.    // ::: โปรแกรมลำดับที่ 13
182.    import java.io.*;
183.    class J0304 {
184.    public static void main(String args[]) throws IOException {
185.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
186.    String buf;
187.    int i1,i2,i3;
188.    buf = stdin.readLine();
189.    i1 = Integer.parseInt(buf);
190.    buf = stdin.readLine();
191.    i2 = Integer.parseInt(buf);
192.    i3 = i1 + i2;
193.    System.out.println("Output is "+i1+" + "+i2+" = "+i3);
194.    }}
195.    // ::: โปรแกรมลำดับที่ 14
196.    import java.io.*;
197.    class J0305 {
198.    public static void main(String args[]) throws IOException {
199.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
200.    String buf;
201.    int i;
202.    System.out.println("Get until receive 0");
203.    do {
204.    buf = stdin.readLine();
205.    i = Integer.parseInt(buf);
206.    System.out.println("Output is "+i);
207.    } while (i != 0);
208.    }}
209.    // :::: โปรแกรมลำดับที่ 15
```

```
210.    class J0401 {
211.    public static void main(String args[]) {
212.    sub1(); sub2(); sub1();
213.    }
214.    static void sub1() {
215.    System.out.print("x");
216.    }
217.    static void sub2() { System.out.print("y"); }
218.    }
219.    // :::: โปรแกรมลำดับที่ 16
220.    class J0402 {
221.    public static void main(String args[]) {
222.    int s = 0;
223.    s = sub(2,8,s);
224.    s = sub(7,3,s);
225.    s = sub(4,6,s);
226.    System.out.println("Sum = "+s);
227.    }
228.    public static int sub(int x, int y, int z) {
229.    int a = y + x + z;
230.    return (a + y + x + z);
231.    }}
232.    // ::: โปรแกรมลำดับที่ 17
233.    class J0403 {
234.    public static void main(String args[]) {
235.    int j = 3;
236.    System.out.println(doubleofnumber(j));
237.    }
238.    static int doubleofnumber(int i) {
239.    i = i * 2;
```

```java
240.     return (i);
241.     }}
242.     // :::: โปรแกรมลำดับที่ 18
243.     class sub01 {
244.     void subx() {
245.     System.out.println("subx in sub01");
246.     }}
247.     class sub02 {
248.     void subx() {
249.     System.out.println("subx in sub02");
250.     }}
251.     class J0404 extends sub02 {
252.     j0404() {
253.     super.subx(); // subx in sub02
254.     this.subx(); // subx in main
255.     }
256.     public static void main(String args[]) {
257.     sub01 x = new sub01();
258.     System.out.println("main"); // main
259.     x.subx();      // subx in sub01
260.     j0404 y = new j0404();
261.     }
262.     void subx() {
263.     System.out.println("subx in main");
264.     }}
265.     // ::: โปรแกรมลำดับที่ 19
266.     class J0501 {
267.     public static void main(String args[]) {
268.     int x[] = {4,18,12};
269.     System.out.println("Amount of array = " + x.length);
```

```java
270.    for (int i = 0; i < x.length; i++) {
271.    System.out.println("element "+i+" = "+x[i]);
272.    }}}
273.    // ::: โปรแกรมลำดับที่ 20
274.    class J0502 {
275.    public static void main(String args[]) {
276.    String a[][] = new String[2][3];
277.    a[0][0] = "101";
278.    a[0][1] = "102";
279.    a[0][2] = "103";
280.    int i = 0;
281.    a[1][i++] = "tom";  // 1,0
282.    a[1][i++] = "dang"; // 1,1
283.    a[1][i++] = "boy";  // 1,2
284.    for (i = 0; i < a[0].length; i++) {
285.    System.out.println("element of 0,"+i+" = "+a[0][i]);
286.    }
287.    for (i = 0; i < a[1].length; i++) {
288.    System.out.println("element of 1,"+i+" = "+a[1][i]);
289.    }}}
290.    // :::: โปรแกรมลำดับที่ 21
291.    import java.io.*;
292.    class J0601 {
293.    public static void main (String args[]) throws IOException {
294.    File f = new File("j0601.java");
295.    System.out.println("getName: "+f.getName());
296.    System.out.println("getPath: "+f.getPath());
297.    System.out.println("getAbsolutePath: "+f.getAbsolutePath());
298.    System.out.println("exists: "+f.exists());
299.    System.out.println("isFile: "+f.isFile());
```

```
300.    System.out.println("isDirectory: "+f.isDirectory());

301.    System.out.println("canWrite: "+f.canWrite());

302.    System.out.println("canRead: "+f.canRead());

303.    System.out.println("length: "+f.length());

304.    File file = new File("hello.txt");

305.    boolean success = file.createNewFile();

306.    File file2 = new File("hello.java");

307.    success = file.renameTo(file2);

308.    File b = new File("c:/");

309.    success = file2.renameTo(new File(b, file2.getName()));

310.    success = (new File("hello.java")).delete();

311.    System.out.println(success); // false

312.    }}

313.    // ::: โปรแกรมลำดับที่ 22

314.    import java.io.*;

315.    class J0602 {

316.    public static void main (String args[]) {

317.    File d = new File(args[0]);

318.    String n[] = d.list();

319.    for (int i = 0; i<n.length; i++) {

320.    File f = new File(args[0] + '/' + n[i]);

321.    System.out.println(i+" : "+n[i]+" Size="+f.length());

322.    }

323.    System.out.println("directory: "+d.getPath());

324.    }}

325.    // :::: โปรแกรมลำดับที่ 23

326.    import java.io.*;

327.    class J0603 {

328.    public static void main (String args[]) throws IOException {

329.    int n = 0;
```

```java
330.    byte b[] = new byte[128];
331.    FileInputStream fin = new FileInputStream("j0603.java");
332.    while ((n = fin.read(b)) != -1) {
333.    for(int i=0;i<n;i++) System.out.print((char)b[i]);
334.    }
335.    System.out.println(n = fin.read(b)); // -1
336.    fin.close();
337.    }
338.    }
339.    // :::: โปรแกรมลำดับที่ 24
340.    import java.io.*;
341.    class J0604 {
342.    public static void main (String args[]) throws IOException {
343.    FileOutputStream fout = new FileOutputStream("tmp.txt");
344.    for(int i=0;i<256;i++) {
345.    fout.write(i);
346.    }
347.    fout.close();
348.    }}
349.    // :::: โปรแกรมลำดับที่ 25
350.    import java.io.*;
351.    class J0605 {
352.    public static void main (String args[]) throws IOException {
353.    FileOutputStream fout = new FileOutputStream("tmp.txt");
354.    for(int i=1;i<=10;i++) {
355.    fout.write(i+47);
356.    fout.write(13);
357.    fout.write(10);
358.    }
359.    fout.close();
```

```
360.    }}
361.    // ::: โปรแกรมลำดับที่ 26
362.    import java.io.*;
363.    class J0606 {
364.    public static void main (String args[]) throws IOException {
365.    int i = 0, n = 0;
366.    char b[] = new char[1];
367.    FileReader fin = new FileReader("tmp.txt");
368.    while ((n =  fin.read(b)) != -1) {
369.    System.out.println(i+" : "+b[0]);
370.    i = i + 1;
371.    }
372.    fin.close();
373.    }}
374.    // :::: โปรแกรมลำดับที่ 27
375.    import java.io.*;
376.    class J0607 {
377.    public static void main (String args[]) throws IOException {
378.    int i = 1, n = 0;
379.    char b[] = new char[16];
380.    FileReader fin = new FileReader("tmp.txt");
381.    while ((n =  fin.read(b)) != -1) {
382.    System.out.print((i-1)*16 + " - " + (i*16-1) + ":");
383.    System.out.print(b[0]+b[1]+b[2]+b[3]+b[4]+b[5]+b[6]+b[7]+b[8]);
384.    System.out.println(b[9]+b[10]+b[11]+b[12]+b[13]+b[14]+b[15]);
385.    i = i + 1;
386.    }
387.    fin.close();
388.    }}
389.    // :::: โปรแกรมลำดับที่ 28
```

```
390.    import java.io.*;
391.    class J0608 {
392.    public static void main (String args[]) throws IOException {
393.    int i = 1;
394.    String b;
395.    FileReader fin = new FileReader("data.txt");
396.    BufferedReader bin = new BufferedReader (fin);
397.    // System.out.println(b = bin.readLine()); // output is b
398.    while ((b =  bin.readLine()) != null) {
399.    System.out.println(i + " : " +b);
400.    i = i + 1;
401.    }
402.    System.out.println(b = bin.readLine()); // null
403.    fin.close();
404.    }}
405.    // :::: โปรแกรมลำดับที่ 29
406.    import java.io.*;
407.    class J0701 {
408.    public static void main (String args[]) throws IOException {
409.    int i = 1;
410.    int tot = 0;
411.    String b;
412.    String[] fields;
413.    String patternStr = ",";
414.    FileReader fin = new FileReader("data.txt");
415.    BufferedReader bin = new BufferedReader (fin);
416.    while ((b =  bin.readLine()) != null) {
417.    fields = b.split(patternStr);
418.    System.out.println(i + " : " + fields[0]);
419.    System.out.println("Name : " + fields[1]);
```

```java
420.    System.out.println("Salary : " + fields[2]);

421.    System.out.println("Status : " + fields[3]);

422.    tot = tot + Integer.parseInt(fields[2]);

423.    i = i + 1;

424.    }

425.    System.out.println("Total : " + tot);

426.    fin.close();

427.    }}

428.    // :::: โปรแกรมลำดับที่ 30

429.    import java.io.*;

430.    import java.lang.*;

431.    class J0702 {

432.    public static void main (String args[]) throws IOException {

433.    int i = 1;

434.    String b;

435.    String[] fields;

436.    String patternStr = ",";

437.    FileReader fin = new FileReader("data.txt");

438.    BufferedReader bin = new BufferedReader (fin);

439.    FileOutputStream fout = new FileOutputStream("data.htm");

440.    BufferedOutputStream bout = new BufferedOutputStream(fout);

441.    PrintStream pout = new PrintStream(bout);

442.    pout.println("<body bgcolor=yellow><table border=1 width=100%>");

443.    while ((b =  bin.readLine()) != null) {

444.    fields = b.split(patternStr);

445.    pout.println("<tr>");

446.    pout.println("<td>"+i+"</td>");

447.    pout.println("<td>"+"ID = " + fields[0]+"</td>");

448.    pout.println("<td>"+"Name = " + fields[1]+"</td>");

449.    pout.println("<td>"+"Salary = " + fields[2]+"</td>");
```

```java
450.    pout.println("<td>"+"Status = " + fields[3]+"</td>");
451.    pout.println("</tr>");
452.    i = i + 1;
453.    }
454.    pout.println("</table></body>");
455.    fin.close();
456.    pout.close();
457.    }}
458.    // ::: โปรแกรมลำดับที่ 31
459.    import java.io.*;
460.    class J0703 {
461.    public static void main (String args[]) throws IOException {
462.    int i = 0,d;
463.    String b;
464.    String[] fields;
465.    String[] recs = {"","",""};
466.    String patternStr = ",";
467.    FileReader fin = new FileReader("data.txt");
468.    BufferedReader bin = new BufferedReader (fin);
469.    while ((b =  bin.readLine()) != null) {
470.    recs[i] = b;
471.    i = i + 1;
472.    }
473.    fin.close();
474.    FileOutputStream fout = new FileOutputStream("data.htm");
475.    BufferedOutputStream bout = new BufferedOutputStream(fout);
476.    PrintStream pout = new PrintStream(bout);
477.    for(int j=0;j<i;j++) {
478.    fields = recs[j].split(patternStr);
479.    pout.print(fields[0]+","+fields[1]+",");
```

```
480.    d = Integer.valueOf(fields[2]).intValue() + 100;

481.    pout.print(d);

482.    pout.println(","+fields[3]);

483.    }

484.    pout.close();

485.    }}

486.    // ::::: โปรแกรมลำดับที่ 32

487.    import java.io.*;

488.    class J0801 {

489.    public static void main (String args[]) throws IOException {

490.    int found=0;

491.    char buf;

492.    String b,g = "";

493.    String[] fields;

494.    String patternStr = ",";

495.    System.out.println("Wait id and end character with [x]");

496.    buf = (char)System.in.read();

497.    while (buf != 'x') {

498.    g = g + buf;

499.    buf = (char)System.in.read();

500.    }

501.    FileReader fin = new FileReader("data.txt");

502.    BufferedReader bin = new BufferedReader (fin);

503.    while ((b =  bin.readLine()) != null) {

504.    fields = b.split(patternStr);

505.    if (fields[0].equals(g)) {

506.    System.out.println(fields[1]);

507.    found = 1;

508.    }}

509.    if (found == 0) System.out.println("Not found");
```

```
510.    fin.close();
511.    }}
512.    // :::: โปรแกรมลำดับที่ 33
513.    import java.io.*;
514.    class J0802 {
515.    public static void main (String args[]) throws IOException {
516.    int found=0;
517.    String b,g = "";
518.    String[] fields;
519.    System.out.println("Wait string and enter");
520.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
521.    g = stdin.readLine();
522.    String patternStr = g;
523.    FileReader fin = new FileReader("data.txt");
524.    BufferedReader bin = new BufferedReader (fin);
525.    while ((b =  bin.readLine()) != null) {
526.    fields = b.split(patternStr);
527.    if (fields.length > 1) {
528.    fields = b.split(",");
529.    System.out.println(fields[0] + fields[1] + fields[2] + fields[3]);
530.    found = 1;
531.    }}
532.    if (found == 0) System.out.println("Not found");
533.    fin.close();
534.    }}
535.    // :::: โปรแกรมลำดับที่ 34
536.    import java.io.*;
537.    class J0901 {
538.    public static void main (String args[]) throws IOException {
539.    int i = 0,t1,t2;
```

```java
540.    String b,status;

541.    String fields[];

542.    String[] recs1 = new String[10];

543.    String[] recs2 = {"A,Active","R,Retire"};

544.    String patternStr = ",";

545.    FileReader fin = new FileReader("data.txt");

546.    BufferedReader bin = new BufferedReader (fin);

547.    while ((b =  bin.readLine()) != null) {

548.    recs1[i] = b;

549.    i = i + 1;

550.    }

551.    fin.close();

552.    t1 = i;

553.    t2 = recs2.length;

554.    for(int j=0;j<t1;j++) {

555.    fields = recs1[j].split(patternStr);

556.    System.out.print(fields[0] + fields[1] + fields[2]+fields[3]);

557.    status = fields[3];

558.    for(int k=0;k<t2;k++) {

559.    fields = recs2[k].split(patternStr);

560.    if (fields[0].equals(status)) {

561.    System.out.println(fields[1]);

562.    }}}}}

563.    // :::: โปรแกรมลำดับที่ 35

564.    import java.io.*;

565.    class J0902 {

566.    public static void main (String args[]) throws IOException {

567.    int i = 0,t1,t2;

568.    String b,status;

569.    String[] fields;
```

```java
570.    String[] recs1 = {"","","","","",""};
571.    String[] recs2 = new String[2];
572.    FileReader fin = new FileReader("data.txt");
573.    BufferedReader bin = new BufferedReader (fin);
574.    while ((b =  bin.readLine()) != null) {
575.    recs1[i] = b;
576.    i = i + 1;
577.    }
578.    fin.close();
579.    t1 = i;
580.    i = 0;
581.    FileReader fin2 = new FileReader("datas.txt");
582.    BufferedReader bin2 = new BufferedReader (fin2);
583.    while ((b =  bin2.readLine()) != null) {
584.    recs2[i] = b;
585.    i = i + 1;
586.    }
587.    fin2.close();
588.    t2 = i;
589.    for(int j=0;j<t1;j++) {
590.    fields = recs1[j].split(",");
591.    System.out.print(fields[0] + fields[1] + fields[2]+fields[3]);
592.    status = fields[3];
593.    for(int k=0;k<t2;k++) {
594.    fields = recs2[k].split(",");
595.    if (fields[0].equals(status)) {
596.    System.out.println(fields[1]);
597.    }}}}}
598.    // ::: โปรแกรมลำดับที่ 36
599.    class J1001 {
```

```java
600.    public static void main (String args[]) {
601.    int tmp,x[] = {5,6,1,2,9,12,9,3};
602.    for(int i=1;i<x.length;i++) {
603.    for(int j=x.length-1;j>=i;j--) {
604.    if(x[j-1] > x[j]) {
605.    tmp = x[j];
606.    x[j] = x[j-1];
607.    x[j-1] = tmp;
608.    }}}
609.    for(int i=0;i<x.length;i++) {
610.    System.out.println(x[i]);
611.    }}}
612.    // ::: โปรแกรมลำดับที่ 37
613.    import java.lang.*;
614.    class J1002 {
615.    public static void main (String args[]) {
616.    String tmp,x[] = {"ac","abc","adb","a","aa","acd","a a","a d"};
617.    System.out.println("Before sorting");
618.    prtlist(x);
619.    for(int i=1;i<x.length;i++) {
620.    for(int j=x.length-1;j>=i;j--) {
621.    if(x[j-1].compareTo(x[j])>0) {
622.    tmp = x[j];
623.    x[j] = x[j-1];
624.    x[j-1] = tmp;
625.    }}}
626.    System.out.println("After sorting");
627.    prtlist(x);
628.    }
629.    public static void prtlist(String[] x) {
```

```
630.    for(int i=0;i<x.length;i++) {
631.    System.out.println(x[i]);
632.    }}}
633.    // :::: โปรแกรมลำดับที่ 38
634.    import java.applet.*;
635.    import java.awt.*;
636.    public class J1101 extends java.applet.Applet {
637.    public void paint(Graphics g) {
638.    g.setColor(new Color(240,240,240));
639.    g.drawString("test",10,20);
640.    }}
641.    // :::: โปรแกรมลำดับที่ 39
642.    import java.applet.*;
643.    import java.awt.*;
644.    public class J1102 extends Applet {
645.    int i,j;
646.    String istr,p;
647.    public void init() {
648.    setBackground(Color.yellow);
649.    p = getParameter("x");
650.    }
651.    public void paint(Graphics g) {
652.    g.setColor(Color.black);
653.    g.drawString(p,0,10);
654.    i = 1;
655.    while (i <= 10) {
656.    j = 10 * i;
657.    istr= Integer.toString(i);
658.    g.drawString(istr,72,j); // column = 1 inch
659.    i++;
```

```
660.    }}}
661.    // ::::: โปรแกรมลำดับที่ 40
662.    import java.applet.*;
663.    import java.awt.*;
664.    public class J1103 extends Applet implements Runnable{
665.    Thread timer;
666.    int row = 10;
667.    public void paint(Graphics g) {
668.    row = row + 2;
669.    g.drawLine(5,row,30,row);
670.    }
671.    public void start() {
672.    timer = new Thread(this);
673.    timer.start(); // start clock
674.    }
675.    public void run() {
676.    Thread me = Thread.currentThread();
677.    while (timer == me) {
678.    try {
679.    Thread.currentThread().sleep(1000);
680.    } catch (InterruptedException e) { }
681.    repaint();
682.    }}}
683.    // ::::: โปรแกรมลำดับที่ 41
684.    import java.applet.*;
685.    import java.awt.*;
686.    public class J1104 extends Applet {
687.    Image img;
688.    public void init() {
689.    setBackground(Color.green);
```

```java
690.    img = getImage(getDocumentBase(),"x.gif");
691.    }
692.    public void paint(Graphics g) {
693.    g.setColor(Color.black);
694.    g.drawLine(5,10,30,40);
695.    g.drawRect(50,50,80,80);
696.    g.drawOval(50,50,20,30);
697.    g.setColor(Color.white);
698.    g.fillOval(50,50,20,30); // backgound is white
699.    g.setColor(Color.red);
700.    g.drawArc(40,30,55,55,0,120);
701.    int[] x={0,80,100,5,10};
702.    int[] y={0,50,80,80,30};
703.    g.drawPolygon(x,y,5);
704.    g.drawImage(img, 0, 200, this);
705.    }}
706.    // :::: โปรแกรมลำดับที่ 42
707.    import java.applet.*;
708.    import java.awt.*;
709.    import java.awt.event.*;
710.    public class J1105 extends Applet implements ActionListener {
711.    Button b1 = new Button("1");
712.    Label l1 = new Label("Hello");
713.    TextField t1 = new TextField("1");
714.    int row = 10;
715.    public void paint(Graphics g) {
716.    row = row + 10;
717.    g.drawLine(5,row,30,row);
718.    }
719.    public void init() {
```

```java
720.    setBackground(Color.red);
721.    add(l1);
722.    add(b1);
723.    add(t1);
724.    t1.addActionListener(this);
725.    b1.addActionListener(this);
726.    }
727.    public void actionPerformed(ActionEvent e) {
728.    int intb1 = Integer.parseInt(e.getActionCommand());
729.    intb1 = intb1 + 1;
730.    String s = Integer.toString(intb1);
731.    l1.setText(s);
732.    b1.setLabel(s);
733.    t1.setText(s);
734.    repaint();
735.    }}
736.    // :::: โปรแกรมลำดับที่ 43
737.    import java.io.*;
738.    class J1201 {
739.    public static void main(String args[]) throws IOException {
740.    int buf=49;
741.    while (buf != 51) {
742.    if (buf >= 49 && buf <= 51) {
743.    System.out.println("What is your option?");
744.    System.out.println("1. print 1 to 10");
745.    System.out.println("2. print 'ok'");
746.    System.out.println("3. exit");
747.    }
748.    buf = System.in.read();
749.    switch (buf) {
```

```java
750.    case 49: // character 1
751.    for (int i=1;i<=10;i++) {
752.    System.out.println(i);
753.    }
754.    break;
755.    case 50: // character 2
756.    System.out.println("ok");
757.    break;
758.    case 51: break; // character 3
759.    case 13: break;
760.    case 10: break;
761.    default:
762.    System.out.println("Nothing to do");
763.    break;
764.    }}
765.    System.out.println("See you again");
766.    }}
767.    // :::: โปรแกรมลำดับที่ 44
768.    import java.io.*;
769.    class J1202 {
770.    public static void main(String args[]) throws IOException {
771.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
772.    String buf=" ";
773.    while (!buf.equals("3")) {
774.    System.out.println("What is your option?");
775.    System.out.println("1. print 1 to 10");
776.    System.out.println("2. print 'ok'");
777.    System.out.println("3. exit");
778.    buf = stdin.readLine();
779.    if (buf.equals("1"))
```

```java
780.    for (int i=1;i<=10;i++) System.out.println(i);
781.    if (buf.equals("2")) System.out.println("ok");
782.    }
783.    System.out.println("See you again");
784.    }}
785.    // :::: โปรแกรมลำดับที่ 45
786.    import java.io.*;
787.    class J1203 {
788.    public static void main(String args[]) throws IOException {
789.    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
790.    String buf=" ";
791.    while (!buf.equals("3")) {
792.    System.out.println("What is your option?");
793.    System.out.println("1. print 1 to 10");
794.    System.out.println("2. print 'ok'");
795.    System.out.println("3. exit");
796.    buf = stdin.readLine();
797.    if (buf.equals("1")) oho1();
798.    if (buf.equals("2")) { oho2(); }
799.    }
800.    System.out.println("See you again");
801.    }
802.    public static void oho1() {
803.    for (int i=1;i<=10;i++) {
804.    System.out.println(i);
805.    }}
806.    public static void oho2() {
807.    System.out.println("ok");
808.    }}
809.    import java.io.*;
```

```java
810.    class Pollweb {

811.    public static void main (String args[]) throws IOException {

812.    int i=0;

813.    int questionhave = 14;

814.    int q[] = new int[questionhave];

815.    String b;

816.    String[] fields;

817.    String patternStr = ",";

818.    FileReader fin = new FileReader("pollweb.txt");

819.    BufferedReader bin = new BufferedReader (fin);

820.    while ((b =  bin.readLine()) != null) {

821.    fields = b.split(patternStr);

822.    for (int j=1;j<=questionhave-1;j++)

823.    q[j]+= Integer.parseInt(fields[j]);

824.    i = i + 1;

825.    }

826.    System.out.println("Total questions: " + i);

827.    for (int j=1;j<=questionhave-1;j++)

828.    System.out.println(j+":"+q[j]+" | "+(q[j] * 100 / i)+"%");

829.    fin.close();

830.    }}

831.    class Hello1 {

832.    public static void main(String args[]) {

833.    System.out.println("hello");

834.    }}

835.    import java.lang.*;

836.    import java.applet.*;

837.    import java.awt.Graphics;

838.    public class Hello2 extends java.applet.Applet {

839.    public void paint(Graphics g){
```

```
840.    g.drawString("hello",10,10);
841.    }}
842.    class Pyramid01 {
843.    public static void main(String args[]) {
844.    int k = 4;
845.    for (int i=1;i<=k;i++) {
846.    for (int j=2;j<=i;j++) { System.out.print(" "); }
847.    System.out.print(i+""+i);
848.    for (int j=k;j>=(i+1);j--) { System.out.print("**"); }
849.    System.out.println(i+""+i);
850.    }}}
851.    class Pyramid02 {
852.    public static void main(String args[]) {
853.    int k = 4;
854.    for (int i=1;i<=k;i++) {
855.    for (int j=i;j<=(i+2);j++) { System.out.print(j); }
856.    for (int j=1;j<=(2+i);j++) { System.out.print("*"); }
857.    System.out.println();
858.    }}}
859.    class Pyramid03 {
860.    public static void main(String args[])   {
861.    int k = 4;
862.    for (int i=1;i<=k;i++) {
863.    System.out.print(i+""+(i+4));
864.    for (int j=1;j<=(4+i);j++) {
865.    System.out.print("*");
866.    }
867.    System.out.println();
868.    }}}
869.    class Pyramid04 {
```

```
870.    public static void main(String args[]) {
871.    int k = 4;
872.    for (int i=1;i<=k;i++) {
873.    for (int j=1;j<=i;j++) { System.out.print("*"); }
874.    for (int j=i;j>=2;j--) { System.out.print(j); }
875.    for (int j=1;j<=i;j++) { System.out.print(j); }
876.    System.out.println();
877.    }}}
```