Object Oriented Programming

Prof. TAL Tongsreng TP01

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Class: I3-GIC (C)

```
J TP01_2.java > ♣ TP01_2
                            TP01 2.java is a non-project file, only syntax errors are
     public class TP01 2 {
         Run | Debug
         public static void main(String[] args) {
            System.out.printf(format: "\\n\t\t%15s\n",...args: "Line break.");
            System.out.printf(format: "\\t\t\t\15s\n",...args: "Tabulation.");
            System.out.printf(format: "\\\'\t\t%15s\n",...args: "Single Quote.");
            System.out.printf(format: "\\\"\t\t\15s\n",...args: "Double Quote.");
            System.out.printf(format: "\\\\t\t%15s\n",...args: "\\ Sign.");
            System.out.printf(format: "//\t\t%15s\n",...args: "Line Comment.");
            System.out.printf(format: "/*...*/n\t\t%15s\n",...args: "Block Comment.");
            System.out.printf(format: "\"\"\t\t\t%15s\n", ...args: "Text block.");
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```
PS D:\Documents\ITC_I3\Programming\Java\Code> Javac TP01_1.ja
PS D:\Documents\ITC_I3\Programming\Java\Code> java TP01_1
Hello, Dara!
PS D:\Documents\ITC_I3\Programming\Java\Code>
```

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\n Line break.
\t Tabulation.
\' Single Quote.
\" Double Quote.
\\ \Sign.
\\\\ Sign.
\!\\ Block Comment.
\""" Text block.
```

3. Display shapes

```
J TP01_3.java > ધ TP01_3
    public class TP01_3 {
                          TP01_3.java is a non-project file, only syntax errors are reported
        Run | Debug
     public static void main(String[] args) {
           System.out.println(x: "-----");
           System.out.println(x: "A.");
           System.out.println(x: "-----");
           for(int i=0; i<6; i++) {
               for(int j=0; j<25; j++) {
                  if(i==0 || i==5) {
                      System.out.print(s: "*");
                      if(j==0 || j==24) {
                          System.out.print(s: "*");
                          System.out.print(s: " ");
               System.out.println();
```

```
System.out.println(x: "-----");
System.out.println(x: "B.");
System.out.println(x: "-----");
for(int i=0; i<5; i++) {
   for(int j=0; j<9; j++) {
      if(j < 4-i) {
         System.out.print(s: " ");
      else if(j \leftarrow 4+i) {
         System.out.print(s: "*");
         break;
   System.out.println();
```

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B.

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System.out.println(x: "-----");
          System.out.println(x: "C.");
          System.out.println(x: "-----");
          for(int i=0; i<5; i++) {
             for(int j=0; j<(2*i+1); j++) {
                System.out.print(s: "*");
             System.out.println();
          //D.
          System.out.println(x: "-----");
          System.out.println(x: "D.");
          System.out.println(x: "-----");
          for(int i=0; i<5; i++) {
             for(int j=9; j>0; j--) {
                if(j>(2*i+1)) {
                   System.out.print(s: " ");
                else
                   System.out.print(s: "*");
             System.out.println();
70
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С.
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*****
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D.
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   ****
  *****
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//E.
          System.out.println(x: "-----");
          System.out.println(x: "E.");
          System.out.println(x: "-----");
          for(int i=0; i<5; i++) {
              for(int j=9; j>0; j--) {
                 if(j>(2*i+1) || j>(9-2*i)) {
                    System.out.print(s: " ");
                 else
                    System.out.print(s: "*");
84
              System.out.println();
          System.out.println(x: "-----");
          System.out.println(x: "F.");
          System.out.println(x: "-----");
          for(int i=0; i<5; i++) {
              for(int j=0; j<9; j++) {
                 if(j<4-i || j<i) {
                    System.out.print(s: " ");
                 else if(j <= 4+i \&\& j <= 8-i) {
                    System.out.print(s: "*");
                    break;
              System.out.println();
```

```
//G.
            System.out.println(x: "-----");
110
            System.out.println(x: "G.");
111
            System.out.println(x: "-----");
112
113
            for(int i=0; i<5; i++) {
114
               for(int j=0; j<5; j++) {
115
                  if(j<i && j<4-i) {
116
                      System.out.print(s: " ");
117
118
                  else if(j<5-i || j<i+1) {
119
                      System.out.print(s: "*");
120
121
123
                     break;
124
126
               System.out.println();
128
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G.

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130
             System.out.println(x: "-----");
132
             System.out.println(x: "H.");
             System.out.println(x: "-----");
             int w = 9;
134
             int h = (w+1)/2; //Height
135
136
             int spaceOut = 0;
                                                                           Output
             int spaceIn = 0;
137
138
139
                                                            н.
             for(int i=0; i<h; i++) {
142
                if(i \leftarrow (h-1)/2) {
                    spaceOut = (w-1)/2 - 2*i;
                    spaceIn = 4*i-1;
                else {
                    spaceOut += 2;
                    spaceIn -= 4;
                for(int j=0; j<w; j++) {
150
                    if (j==spaceOut || j==spaceIn+spaceOut+1) {      //Print * when j reach to the place that space stoped
152
                       System.out.print(s: "*");
                    } else {
154
                       System.out.print(s: " ");
156
157
                System.out.println();
158
159
160
```