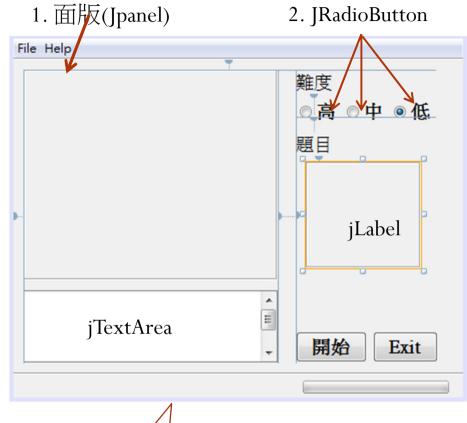
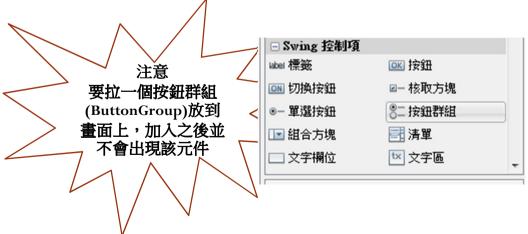
### 記憶力大考驗





```
import javax.swing.JFrame;
import javax.swing.ImageIcon;
import java.awt.Image;
import java.util.*;
```

需要額外 import 的 package



在 class 名之下加入下列藍框裡的指令

```
public class HW11View extends FrameView {
   25
   26
            javax.swing.JButton[] gBtn = new javax.swing.JButton[9];
            Random rnd = new Random(new Date(),getTime());
            static ImageIcon[] imgIcon = new ImageIcon[20];
            String imgPath = "D:\\授課\\2011_Fall\\1001_WindowsPrograming\\Workspace\\HW11\\src\\hw11\\resources\\";
            String[] imgFileName = {"1.png", "2.png", "3.png", "4.png", "5.png", "6.png", "7.png", //
                "8.png", "9.png", "10.png", "Academic-Hat.png", "accept.png", "add.png", //
                "Address Book Mac-01.png", "Adobe PDF Reader-01.png", "BluRay.png", "Books.png", //
                "bulb.png", "Camera.png", "Carton.png"};
            Timer t1, t2;
            int arr[] = new int[9]:
   36
            int quizNo = 0;
   38 🖃
            public HW11View(SingleFrameApplication app) {
             initComponents();
                                                                                    在 initComponents()指令
             jPanel1.setLayout(new java.awt.GridLayout(3, 3));
             buttonGroup1.add(iRadioButton1):
43
                                                                                    下方加入左側紅框裡的指
             buttonGroup1.add(jRadioButton2);
             buttonGroup1.add(jRadioButton3);
             for(int i = 0; i < 9; i \leftrightarrow ){
                 gBtn[i] = new javax.swing.JButton();
                 gBtn[i].setPreferredSize(new java.awt.Dimension(120,120));
                 gBtn[i].addActionListener(new java.awt.event.ActionListener() {
                     public void actionPerformed(ActionEvent e) {
                         gBtnActionPerformed(e);
51
52
53
                 });
54
                 gBtn[i].setIcon(null);
55
                 jPanel1.add(gBtn[i]);
```

在 showAboutBox()函數上方加入下列藍框裡的函數

```
111
          private ImageIcon scale(ImageIcon icon) {
112 🖃
113
               Image img = icon.getImage();
               Image img2 = img.getScaledInstance(110, 110, java.awt.Image.SCALE SMOOTH);
114
115
               return new ImageIcon(img2);
116
117
118
          @Action
          public void showAboutBox() {
119 🖃
              if (aboutBox == null) {
120
                   JFrame mainFrame = HW11App.getApplication().getMainFrame();
121
```

#### 在 jButton1的showAboutBox函數下方加入gBtnActionPerformed()函數

```
127 private void gBtnActionPerformed(ActionEvent ext){
128
129 }
```

#### 在 jButton1的ActionPerformed 裡加入下列藍框裡的指令

```
361 private void jButtonlActionPerformed(java.awt.event.ActionEvent ext) {

// TODO add your handling code here:

System.exit(0);

364
```

#### 在 jButton2的ActionPerformed 裡加入下列指令

```
private void Button2ActionPerformed(java.awt.event.ActionEvent ext) {
366 =
               // TODO add your handling code here:
367
                int degree = 5;
368
                                                                          395
369
               if( | RadioButton1.isSelected()){
                                                                          396
                                                                                          ImageIcon icon;
                    degree = 2:
370
                                                                          397
                                                                                          for(int i = 0; i < 20; i ++){
               }else{
371
                                                                                              icon = new ImageIcon(imgPath+imgFileName[i]);
                                                                          398
                    if( iRadioButton2.isSelected()){
372
                                                                                              imgIcon[i] = scale(icon);
                                                                          399
                        degree = 5:
373
                                                                          400
374
                    }else{
                                                                          401
                                                                                          boolean flag = true;
375
                        if(jRadioButton3.isSelected()){
                                                                          402
                                                                                          int j=0;
                            degree = 9;
376
                                                                          403
                                                                                          while(j<9){
377
                                                                                              arr[i] = rnd.nextInt(20);
                                                                          404
378
                                                                          405
                                                                                              flag = true;
379
                                                                          406
                                                                                              for(int k = 0; k < j; k \leftrightarrow )
               t1 = new Timer(1000*degree, new ActionListener() {
380 =
                                                                          407
                                                                                                   if(arr[j]==arr[k]){
                    public void actionPerformed(ActionEvent e) {
                                                                          408
                                                                                                       flag = false;
                        setGBtnNull();
                                                                          409
383
                        t1.stop();
                                                                          410
                        t2.start():
384
                                                                                              if(flag){
                                                                          411
                        guizNo = rnd.nextInt(9);
385
                                                                          412
                                                                                                   j++;
                        jLabel3.setIcon(imgIcon[arr[quizNo]]);
386
                                                                          413
387
                                                                          414
388
               });
                                                                                         for(int i = 0; i < 9; i \leftrightarrow ){
                                                                          415
               t2 = new Timer(3000, new ActionListener() {
389
                                                                          416
                                                                                              gBtn[i].setIcon(imgIcon[arr[i]]);
                   public void actionPerformed(ActionEvent e) {
                                                                          417
                        guizNo = rnd.nextInt(9);
391
                                                                          418
                                                                                          t1.start();
                        jLabel3.setIcon(imgIcon[arr[quizNo]]);
392
                                                                                         jButton2.setEnabled(false);
                                                                          419
                                                                          420
               });
```

#### 在 jButton2的ActionPerformed 涵數結束後加入setGBtnNull() 函數