AP CS A Celebrity Lab Checklist

| 1. | | ugh Lab exercises on paper for parts 1-3 |
|----|--|--|
| 2. | ☐ Write Celebrity.java (2) Write the PSVM in CelebrityRunner | |
| 3. | | - |
| _ | | eate a CelebrityGame instance |
| 4. | _ | tyGame.java (3) |
| | | ta members |
| | i. | Celebrity instance gameCelebrity |
| | ii. | ArrayList <celebrity>instance celebGameList</celebrity> |
| | iii. | ☐ CelebrityFrame instance gameWindow |
| | b. Constr | |
| | i. | Initialize data members |
| | ii. | Call prepareGame helper |
| | c. Metho | |
| | i. | Complete prepareGame |
| | ii. | Complete game size method |
| | iii. | ' — ' |
| | | 1 sendClue |
| | | 2 sendAnswer |
| | iv. | Complete validation methods |
| | | 1 validateCelebrity |
| | | 2validateClue |
| | V. | Complete addCelebrity |
| | vi. | Complete play |
| | | Check the size of the ArrayList<celebrity></celebrity> |
| | | 2. Set the current celebrity |
| | | Call the replaceScreen method properly |
| | vii. | Complete processGuess |
| | | 1. Use the String methods equals Ignore Case (text) |
| | | and trim() on the parameter |
| | viii. | Complete sendClue() |
| 5. | Complete the | CelebrityFrame class (GUI Appendix) |

a. Constructor

```
public CelebrityFrame(CelebrityGame controller)
    //The first line of any subclass should ALWAYS be
    super();
    this.controller = controller;
    this.panelCards = new JPanel(new CardLayout());
    this.gamePanel = new CelebrityPanel(controller);
    this.startPanel = new StartPanel(controller);
    setupFrame();
      Leave the super () call where it is
    Initialize the controller data member from the parameter
 iii. Initialize the three panels
      1. panelCards with a parameter of a new CardLayout()
      2. gamePanel with a reference to the controller as a parameter
          startPanel with a reference to the controller as a
         parameter
      4. Call the setupFrame helper
```

b. setupFrame helper method

```
private void setupFrame()
     panelCards.add(gamePanel, "GAME");
     panelCards.add(startPanel, "START");
     this.setSize(800,800);
     this.setTitle("Celebrity Game");
    this.add(panelCards);
     this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
     this.setResizable(false);
     replaceScreen("START");
     //Must be the last line of the configuration segment to
    //If not set as true the window will not display and the
    this.setVisible(true);
}
  i. Add the gamePanel and startPanel to the panelCards
    member with the Strings GAME and START respectively
       Set the size of the frame to 800 by 800
  ii.
 iii.
       Set the title to be Celebrity Game
 iv.
       Add the panel cards to the frame
       Set the default close operation
  ٧.
       Set the window to NOT be resizable
 vi.
 vii.
       Call replaceScreen with a parameter of START
      Set the window to be visible!!
viii.
```

c. replaceScreen method

```
public void replaceScreen(String screen)
              if(screen.equals("GAME"))
              {
                  //If the selected screen is the game, sends the first clue t
                  gamePanel.addClue(controller.sendClue());
              //Sets the chosen JPanel subclass as the active class
              ((CardLayout)panelCards.getLayout()).show(panelCards , screen);
           i. Check the if the parameter equals GAME
                 1. If it does, call gamePanel.addClue with a parameter of
                    controller.sendClue()
           ii. | Tell the panelCards layout manager to show the correct screen
6. Complete the StartPanel class
```

- a. The setupPanel helper method
 - private void setupPanel() { this.setLayout(panelLayout); this.add(clueLabel); this.add(celebrityRadio); this.add(literatureRadio); this.add(answerField); this.add(clueField); this.add(startButton); this.add(celebrityCountLabel); this.add(addCelebrityButton); // Adds the RadioButtons to the group so only one can be selected. celebrityRadio.setSelected(true); startButton.setEnabled(false); typeGroup.add(celebrityRadio); typeGroup.add(literatureRadio); }
 - i. Set the layout manager
 - ii. Add all the GUI components
 - 1. l clueLabel
 - 2. celebrityRadio
 - 3. | | literatureRadio

| | 4. answerField |
|------|--|
| | 5. startButton |
| | celebrityCountLabel |
| | 7. addCelebrityButton |
| iii. | Set the default type of Celebrity |
| iv. | Enable the startButton |
| ٧. | Add both RadioButtons to the typeGroup |