GUI CardGame

```
public Card drawCard()
import java.util.ArrayList;
import java.util.Random;
                                                                Card c = cards.get(position);
                                                                position++;
public class Deck
                                                                if(position == 51)
                                                                  position = 0;
private ArrayList<Card> cards = new ArrayList<Card>();
                                                                 return c;
private int position = 0;
                                                                 }//end drawCard
                                                                public void shuffle()
public Deck()
                                                                 Random r = new Random();
String[] suits = {"hearts", "clubs", "diamonds", "spades"};
                                                                for (int x = 0; x < 52; x++)
for (int c = 0; c < suits.length; c++)
                                                                  int y = r.nextInt(52);
                                                                  Card tempCard = cards.get(x);
  String aSuit = suits[c];
                                                                  Card randomCard = cards.get(y);
  for (int x = 1; x <= 13; x++)
                                                                  cards.set(x,randomCard);
    String fileName = aSuit + "-" + x;
                                                                  cards.set(y,tempCard);
    Card aCard = new Card(x,aSuit);
    cards.add(aCard);
                                                                 }//end shuffle
                                                                public String toString()
}//end constructor
                                                                 String s = "DECK: \n";
                                                                 for (int i = 0; i < cards.size(); i++)
                                                                    s = s + cards.get(i) + "\n";
                                                                 return s;
```

}//end toString

```
public class Card
private int value;
private String suit;
public Card(int a, String s)
value = a;
suit = s;
public void setValue(int x)
{value = x;}
public int getValue()
{return value;}
public void setSuit(String s)
{ suit = s;}
public String getSuit()
{ return suit; }
```

```
public String toString()
String name;
if(value == 1)
 name = "Ace";
else if(value == 11)
 name = "Jack";
else if(value == 12)
 name = "Queen";
else if(value == 13)
 name = "King";
else
 name = ""+value;
return name + " of " + suit;
public String mediaName()
{return suit + "-" + value;}
}//end class Card
```

Playing a WAV sound file

Imported library classes:

Thread.sleep(2000);

```
- java.io.File
- javax.sound.sampled.Clip
- javax.sound.sampled.AudioSystem
- javax.sound.sampled.AudioInputStream

try{

File sound = new File("sound.wav");
Clip clip = AudioSystem.getClip();
clip.open(AudioSystem.getAudioInputStream(sound));
clip.start();
```

} catch(Exception e) {System.out.println("Error");}

Pause execution for 2 seconds (2000 milliseconds)

Not needed if your application doesn't terminate immediately

Loading an Image file

Imported library classes:

- java.awt.lmage
- javax.swing.lmagelcon
- javax.imageio.lmagelO
- java.io.File

Declare variable containing your icon outside the try..catch block if you intend to use it outside that block.

```
ImageIcon icon = new ImageIcon();
try
{
File imageFile = new File("media/" + s + ".jpg");
Image img1 = ImageIO.read(imageFile);
icon = new ImageIcon(img1);
}
catch(Exception e) {System.out.println("Error loading image"); }
```

```
public static void main(String[] args)
{
HighLow game = new HighLow();
game.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
game.setSize(900,250);
game.setVisible(true);
}//end main
```