

```
1  /**
2   * Card.java
3   *
4   * Card represents a playing card.
5   */
6  public class Card {
7
8      /* *** TO BE IMPLEMENTED IN ACTIVITY 1 *** */
9      /**
10     * String variable that holds the suit of the card
11     */
12     private String suit;
13     /**
14     * String variable that holds the rank of the card
15     */
16     private String rank;
17     /**
18     * int variable that holds the point value.
19     */
20     private int pValue;
21
22     /**
23     * Creates a new Card instance.
24     *
25     * @param cardRank  a String value
26     *                  containing the rank of the card
27     * @param cardSuit  a String value
28     *                  containing the suit of the card
29     * @param cardPointValue an int value
30     *                  containing the point value of the card
31     */
32     public Card(String cardRank, String cardSuit, int cardPointValue) {
33         /* *** TO BE IMPLEMENTED IN ACTIVITY 1 *** */
34         rank = cardRank;
35         suit = cardSuit;
36         pValue = cardPointValue;
37     }
38
39     /**
40     * Accesses this Card's suit.
41     * @return this Card's suit.
42     */
43     public String getSuit() {
44         /* *** TO BE IMPLEMENTED IN ACTIVITY 1 *** */
45         return suit;
46     }
47
48     /**
49     * Accesses this Card's rank.
50     * @return this Card's rank.
51     */
52     public String getRank() {
53         /* *** TO BE IMPLEMENTED IN ACTIVITY 1 *** */
54         return rank;
55     }
56
57     /**
58     * Accesses this Card's point value.
59     * @return this Card's point value.
60     */
61     public int getPointValue() {
62         /* *** TO BE IMPLEMENTED IN ACTIVITY 1 *** */
63         return pValue;
64     }
65
66     /** Compare this card with the argument.
```

```
67      * @param otherCard the other card to compare to this
68      * @return true if the rank, suit, and point value of this card
69      *         are equal to those of the argument;
70      *         false otherwise.
71      */
72      public boolean matches(Card otherCard) {
73          /* *** TO BE IMPLEMENTED IN ACTIVITY 1 *** */
74          if (toString().equals(otherCard.toString()))
75              return true;
76          return false;
77      }
78
79      /**
80      * Converts the rank, suit, and point value into a string in the format
81      * "[Rank] of [Suit] (point value = [PointValue])".
82      * This provides a useful way of printing the contents
83      * of a Deck in an easily readable format or performing
84      * other similar functions.
85      *
86      * @return a String containing the rank, suit,
87      *         and point value of the card.
88      */
89      @Override
90      public String toString() {
91          /* *** TO BE IMPLEMENTED IN ACTIVITY 1 *** */
92          return rank + " of " + suit + "(point value = " + pValue + ")";
93      }
94  } //end of Card class
95
```