JAVA ASSIGNMNET 4

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BATCH: AIML A1

QUESTION:

Write a menu-driven Java Program for the following:

There are 52 cards in a deck, each of which belongs to one of four suits and one of 13 ranks. Represent a deck of cards as an array of

Objects (*you may use the Vector class)

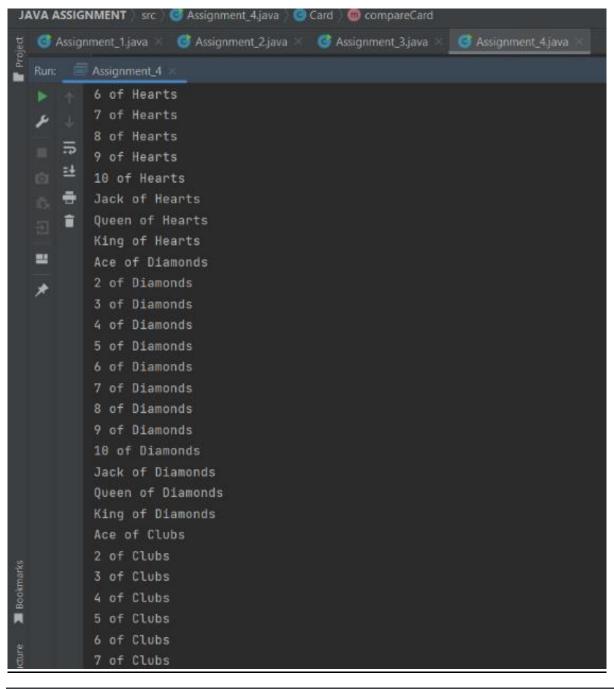
- 1. Use integers to encode the ranks and suits.
- 2. Have suitable default & parameterized constructors.
- 3. all data members to have private access.
- 4. The class 'Card' to have the following methods:

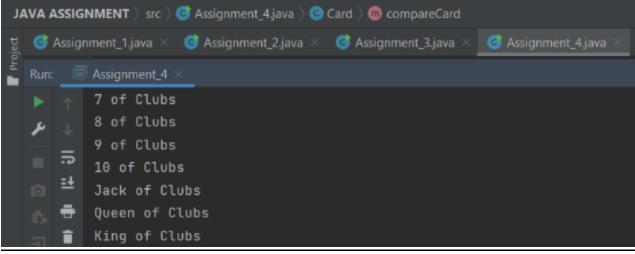
createDeck(), printCard(), printDeck (),sameCard(),compareCard(), sortCard(), findCard() which searches through an array or vector of Cards to see whether it contains a certain card, dealCards() function: to print 5 random cards from the existing deck.

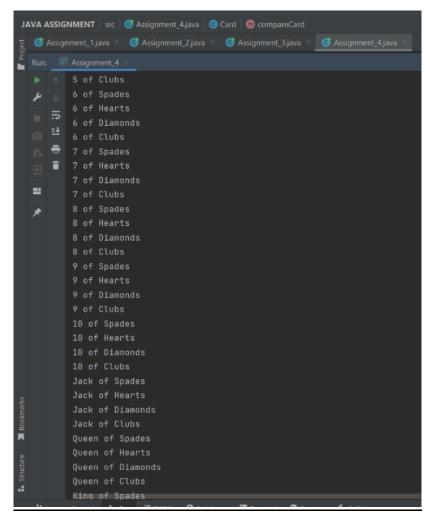
CODE:

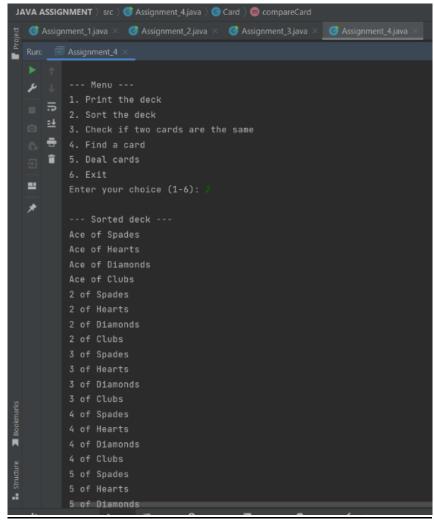
OUTPUT:

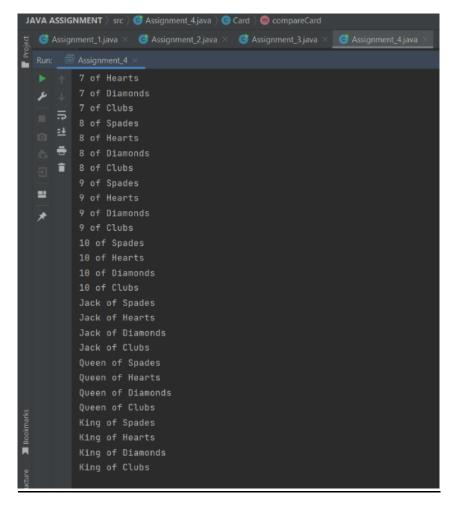
```
JAVA ASSIGNMENT ) src ) 😅 Assignment_4.java ) 😇 Card ) 📵 compareCard
  "C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program
  ۶
         --- Menu ---
     🖶 3. Check if two cards are the same
      i 4. Find a card
         5. Deal cards
  ==
         Enter your choice (1-6): |
         Ace of Spades
         2 of Spades
         3 of Spades
         4 of Spades
         5 of Spades
         6 of Spades
         8 of Spades
         9 of Spades
         10 of Spades
         Queen of Spades
         King of Spades
         Ace of Hearts
         2 of Hearts
* Structure
         3 of Hearts
         4 of Hearts
         5 of Hearts
```

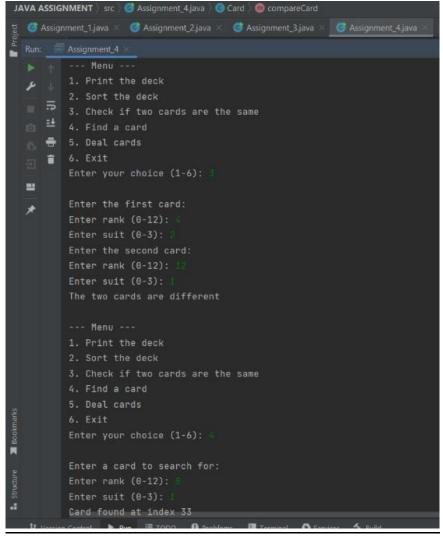












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JAVA ASSIGNMENT ) src ) @ Assignment_4.java > @ Card > @ compareCard
  G Assignment_1.java ×
                     Assignment_2.java ×
                                         G Assignment_3.java
          --- Menu ---
          2. Sort the deck
          3. Check if two cards are the same
          4. Find a card
          5. Deal cards
          6. Exit
  ==
          Enter your choice (1-6): 5
          Dealing cards...
          8 of Hearts
          2 of Hearts
          6 of Diamonds
          3 of Spades
          9 of Hearts
          --- Menu ---
          1. Print the deck
          2. Sort the deck
          3. Check if two cards are the same
          4. Find a card
          5. Deal cards
          6. Exit
          Enter your choice (1-6): 6
          Process finished with exit code 0
```

GITHUB LINK:

https://github.com/ananya2285/Java-Assignment-/blob/c903547e65d4042dea84001c1e63c413a9d577fa/Assignment_4.java