Logo, company name

Description automatically generated**COMSATS** Logo, company name

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Description automatically generated**University Islamabad, Lahore Campus**

**Block–C, Department of Computer Science**

**COMSATS University Islamabad, Lahore Campus 1.5KM Defence Road, Off Raiwind Road, Lahore**

**LabTask#2 (10 marks)**

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**Problem Statement :**

Modify the Card Shuffling and Dealing Simulation (Fig 7.10) from your textbook to find five cards of consecutive face values. Your program should continue calling the shuffle method until the required sequence is found.

Two sample runs of the program are given below help you understand what the expected output is:

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C:\school\SP22\OOP\LabTasks\LT2>java DeckOfCardsTest

Sequence found at location 39

Three of Spades, Four of Hearts, Five of Hearts, Six of Spades, Seven of Spades

Queen of Clubs Nine of Clubs Nine of Spades Four of Diamonds

Six of Clubs Queen of Diamonds Ace of Diamonds King of Diamonds

Queen of Spades Jack of Hearts Seven of Hearts Seven of Diamonds

Eight of Hearts Ace of Spades Five of Clubs Three of Diamonds

Six of Diamonds Five of Spades Jack of Spades Deuce of Hearts

King of Hearts Ten of Spades Ace of Clubs King of Clubs

Nine of Diamonds Ten of Clubs Five of Diamonds Three of Hearts

King of Spades Nine of Hearts Jack of Diamonds Eight of Clubs

Deuce of Diamonds Eight of Diamonds Jack of Clubs Four of Clubs

Deuce of Clubs Seven of Clubs Ace of Hearts **Three of Spades**

**Four of Hearts Five of Hearts Six of Spades Seven of Spades**

Deuce of Spades Four of Spades Ten of Diamonds Eight of Spades

Ten of Hearts Queen of Hearts Three of Clubs Six of Hearts

The above sequence was found after 816 shuffles

C:\school\SP22\OOP\LabTasks\LT2>java DeckOfCardsTest

Sequence found at location 28

Eight of Clubs, Nine of Clubs, Ten of Hearts, Jack of Spades, Queen of Spades

Three of Clubs Five of Clubs Three of Hearts Six of Spades

Eight of Spades Jack of Diamonds Six of Hearts Three of Diamonds

Deuce of Clubs Deuce of Diamonds Queen of Clubs Nine of Diamonds

King of Diamonds Four of Diamonds King of Spades Five of Spades

Ace of Spades Seven of Hearts Ace of Clubs Six of Diamonds

Ten of Clubs Deuce of Spades Ten of Spades King of Hearts

Queen of Hearts Five of Diamonds Ace of Diamonds Four of Hearts

**Eight of Clubs Nine of Clubs Ten of Hearts Jack of Spades**

**Queen of Spades** Eight of Hearts King of Clubs Nine of Hearts

Four of Clubs Nine of Spades Jack of Clubs Five of Hearts

Ace of Hearts Ten of Diamonds Seven of Spades Deuce of Hearts

Seven of Diamonds Three of Spades Seven of Clubs Jack of Hearts

Eight of Diamonds Queen of Diamonds Four of Spades Six of Clubs

The above sequence was found after 1412 shuffles

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The submission should follow the usual guidelines of comments, indentation and filename being your SID.

Due Date : Friday, March 11th, 2022