PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Class BlackjackGame

java.lang.Object BlackjackGame

public class BlackjackGame
extends java.lang.Object

This is the a game class for blackjack. It uses the edu.gvsu.* package. It is only used by the GUI class to run the program. One player will be able to play against the dealer in blackjack.

Since:

2016-10-18

Version:

1.0

Author:

Nathan Lindenbaum

Field Summary

Fields

Modifier and Type	Field and Description
private static int	ACE The Constant ACE.
private static int	ACE_DIFF The Constant ACE_DIFF.
private int	bet The bet.
private static java.lang.String	BET_MESS The Constant BET_MESS.
private static int	BLACKJACK The Constant BLACKJACK.
private edu.gvsu.GVcard	c The c.
private static int	CARD_INDENT The Constant CARD_INDENT.

private int creditBalance

The bet.

private static int CREDITS

The Constant CREDITS.

private static int DEALER_MIN_HAND

The Constant DEALER_MIN_HAND.

private edu.gvsu.GVpile dealerCards

The dealer temp cards.

private int dealerCount

The player count.

The dealer temp cards.

private edu.gvsu.GVpile deck

The player cards.

private static int FACECARD

The Constant FACECARD.

private static int JACK

The Constant JACK.

private static int KING

The Constant KING.

private static int MAX BET

The Constant MAX BET.

private java.lang.String message

The message.

private static int MIN BET

The Constant MIN_BET.

private static int MIN_DECK_CARDS

The Constant MIN_DECK_CARDS.

private static int NEWACE

The Constant NEWACE.

private static int NOT_BLACKJACK

The Constant NOT BLACKJACK.

private static java.lang.String NOT ENOUGH

The Constant NOT_ENOUGH.

private int numberOfAcesd

The number of acesd.

private int numberOfAcesp

The number of acesd.

The player cards.

private int playerCount

The player count.

The dealer temp cards.

private static int QUEEN

The Constant QUEEN.

private static java.lang.String TABLE_MAX

The Constant TABLE_MAX.

private static java.lang.String TABLE_MIN

The Constant TABLE_MIN.

private static java.lang.String VALID_INT

The Constant VALID_INT.

Constructor Summary

Constructors

Constructor and Description

BlackjackGame()

Instantiates a new blackjack game.

Method Summary

Modifier and Type

All Methods Instance Methods Concrete Methods

private void

adjustHandValueAce(java.lang.String hand)

This method will be called after each new card is dealt.

private boolean

checkWinner()

Method and Description

This method will check to see if the player has a winning hand.

This method uses the GVpile command of .pop().

This method will update all the piles that are used in the game to be empty.

void deal()

This method will deal the initial 4 cards.

int dealerCountTotal()

This method will return the present value of the dealers cards.

This method will pop a card from the deck.

void doubleDown()

This method is called by the GUI when a player wants to double their bet and

only draw one card.

int getCreditBalance()

This method will return the present amount of credits.

edu.gvsu.GVpile getDealerCards()

This method will return the GVpile of dealer cards.

java.lang.String getMessage()

This method is a getter method for an updating message.

edu.gvsu.GVpile getPlayerCards()

This method will return the GVpile of the players cards.

This method will update the deck (1 single deck).

void placeBet()

This method will update the players bet.

This method will return the present value of the players cards.

This method will pop a card from the deck.

private int realCardValue(edu.gvsu.GVcard cardCheck,

java.lang.String hand)

This method will take two parameters.

void stand()

First, this method will flip the first dealer card by adding it to a new pile and

then popping it off.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait

Field Detail

FACECARD

private static final int FACECARD

The Constant FACECARD.

See Also:

Constant Field Values

JACK

private static final int JACK

The Constant JACK.

See Also:

Constant Field Values

QUEEN

private static final int QUEEN

The Constant QUEEN.

See Also:

Constant Field Values

KING

private static final int KING

The Constant KING.

See Also:

Constant Field Values

ACE

private static final int ACE

The Constant ACE.

See Also:

Constant Field Values

NEWACE

private static final int NEWACE

The Constant NEWACE.

See Also:

Constant Field Values

ACE_DIFF

private static final int ACE_DIFF

The Constant ACE_DIFF.

See Also:

Constant Field Values

MIN_DECK_CARDS

private static final int MIN_DECK_CARDS

The Constant MIN_DECK_CARDS.

See Also:

Constant Field Values

DEALER_MIN_HAND

private static final int DEALER_MIN_HAND

The Constant DEALER_MIN_HAND.

See Also:

Constant Field Values

CARD_INDENT

private static final int CARD_INDENT

The Constant CARD_INDENT.

See Also:

Constant Field Values

BLACKJACK

private static final int BLACKJACK

The Constant BLACKJACK.

See Also:

Constant Field Values

NOT_BLACKJACK

private static final int NOT_BLACKJACK

The Constant NOT_BLACKJACK.

See Also:

Constant Field Values

MAX_BET

private static final int MAX_BET

The Constant MAX_BET.

See Also:

Constant Field Values

MIN_BET

private static final int MIN_BET

The Constant MIN_BET.

See Also:

Constant Field Values

CREDITS

private static final int CREDITS

The Constant CREDITS.

See Also:

Constant Field Values

dealerCount

private int dealerCount

BlackjackGame The player count. playerCount private int playerCount The player count. creditBalance private int creditBalance The bet. bet private int bet The bet. numberOfAcesp private int numberOfAcesp The number of acesd. numberOfAcesd private int numberOfAcesd The number of acesd. С private edu.gvsu.GVcard c The c. deck private edu.gvsu.GVpile deck The player cards.

playerCards

private edu.gvsu.GVpile playerCards

The player cards.

playerTempCards

private edu.gvsu.GVpile playerTempCards

The dealer temp cards.

dealerCards

private edu.gvsu.GVpile dealerCards

The dealer temp cards.

dealerTempCards

private edu.gvsu.GVpile dealerTempCards

The dealer temp cards.

message

private java.lang.String message

The message.

NOT_ENOUGH

private static final java.lang.String NOT ENOUGH

The Constant NOT_ENOUGH.

See Also:

Constant Field Values

TABLE MIN

private static final java.lang.String TABLE_MIN

The Constant TABLE_MIN.

See Also:

Constant Field Values

TABLE_MAX

private static final java.lang.String TABLE_MAX

The Constant TABLE_MAX.

See Also:

Constant Field Values

VALID_INT

private static final java.lang.String VALID_INT

The Constant VALID_INT.

See Also:

Constant Field Values

BET_MESS

private static final java.lang.String BET_MESS

The Constant BET_MESS.

See Also:

Constant Field Values

Constructor Detail

BlackjackGame

public BlackjackGame()

Instantiates a new blackjack game.

Method Detail

getPlayerCards

public final edu.gvsu.GVpile getPlayerCards()

This method will return the GVpile of the players cards. This pile is painted in the GUI.

Returns:

playerCards

getDealerCards

```
public final edu.gvsu.GVpile getDealerCards()
```

This method will return the GVpile of dealer cards. This pile is painted in the GUI.

Returns:

dealerCards

createHandPiles

```
private void createHandPiles()
```

This method will update all the piles that are used in the game to be empty.

getMessage

```
public final java.lang.String getMessage()
```

This method is a getter method for an updating message.

Returns:

message

newShoe

```
private void newShoe()
```

This method will update the deck (1 single deck). Then it will shuffle the deck and remove the first card. Uses GVcard and GVpile.

clearTable

```
private void clearTable()
```

This method uses the GVpile command of .pop(). It will clear out all the values that are currently in each of the piles.

doubleDown

```
public final void doubleDown()
```

This method is called by the GUI when a player wants to double their bet and only draw one card. It will update the current bet to double what it was originally.

deal

public final void deal()

This method will deal the initial 4 cards. 2 to the player and 2 to the dealer. It will then check to see if the player has a Blackjack.

playerDraw

public final void playerDraw()

This method will pop a card from the deck. Then it will update the player count and check to see if the player busted.

dealerDraw

public final void dealerDraw()

This method will pop a card from the deck. Then it will update the dealer count and

stand

public final void stand()

First, this method will flip the first dealer card by adding it to a new pile and then popping it off. Then, it will continue to call dealerDraw() until the dealer count is greater than 17. Last, it will check if player is a winner checkWinner()

dealerCountTotal

public final int dealerCountTotal()

This method will return the present value of the dealers cards.

Returns:

dealerCount

playerCountTotal

public final int playerCountTotal()

This method will return the present value of the players cards.

Returns:

playerCount

placeBet

public final void placeBet()

This method will update the players bet. It will open a JOptionPane and ask the player to input an integer greater than o. It will check to make sure it is a valid choice, then update the bet.

getCreditBalance

```
public final int getCreditBalance()
```

This method will return the present amount of credits.

Returns:

creditBalance

realCardValue

This method will take two parameters. cardCheck is the GVcard the needs to have the correct value associated to it. hand is just a String to indicate which player's ace count will be updated, the local variable x is the cards value and will be updated if it is a face card.

Parameters:

```
cardCheck - GVcard associated with player card
```

hand - String to indicate which player's ace count is updated

Returns:

х

checkWinner

```
private boolean checkWinner()
```

This method will check to see if the player has a winning hand.

Returns:

```
playerBetterScore | dealerBustScore | playerBJ
```

adjustHandValueAce

```
private void adjustHandValueAce(java.lang.String hand)
```

This method will be called after each new card is dealt. It will check to see if the player or dealer has an ace. Then it will update the playerCount or dealerCount accordingly.

Parameters:

hand - See if player has ace

PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD