- Suit suit (enum); -Value value (enum);

- + card constructor (suit s value v
- + getter
- +suit()
- +value()
- +toString()

Suit

enum Suit (CLUBS, HEARTS, SPADES, DIAMONDS)

Value

enum Value

(ACE, 2,3,4,5,6,7,8,9,10 JACK, KING, QUEEN

Dealer

Deck

- Set<card> deck:
- int numberOfCards;
- + getter
- +numberOfCards
- + deck constructor()
- + contains ()
- + draw {return card}

Hand

- ArrayList<card>
- int numberOfCards;
- + add()
- + getter
- + getNumberOfCards
- + Hand constructor()
- + remove() {return card}

Player

- double balance;
- String name;
- Hand hand;
- + getters
- + reduceMoney (double amount);
- + increaseMoney (double amount); {return boolean}

Dice

- int Value
- + getters
- + rollDice(int numberOfDice);

Card Dealer

- Hand hand
- Deck deck
- + getters
- + Dealer constructor ()
- + deal (int noumberOfCards);

Dice Dealer

- Dice dice
- + getters
- + Dealer constructor ()
- + deal int rollDice();

Casino

- ArrayList<Player>
- Game[]
- + main method

User Interface

- Scanner scanner

Class used to store input and output messages

Bettable

- giveMoney (player);
- takeMoney (player);

Game (abstract)

implements Bettable
+ playGame();

Card Game (abstract)

abstract compareCard(Hand, Hand)

BlackJack Handler

Player player;

- + hit();
- +clearHand();

BlackJack (Games themselves implements Bettable not handler)

implements Bettable

- Handler handler;
- Dealer dealer;

HashMap<Value, Integer> (ACE = 1, ACE = 11)

- + BlackJack constructor()
- + CompareCards (Hand h player, hand dealer)
- + playGame();
- + computeHandValue()

H/L Card

extends CardGame HashMap<Value, Integer>

- Handler handler
- Dealer dealer
- + H/L constructor
- + CompareCards(Hand h, Hand h2)
- + playGame()

H/L Handler Card

implements Bettable Player player

- + giveMonery()
- + takeMoney()
- + addCard()
- + clearHand()

Card Handler (abstract)

Hand hand;

- + addCard();
- + clearHand();

Handler

Player player (protected)