Blackjack Game

Need to do research on the game

**Starting**

* Blackjack game using scratch – implement a strategy for playing blackjack
* Game uses between 1 and 4 of 52 cards.

**Betting**

* Player starts with a total of 1000.
* Player can bet any integer amount on a hand between 1 and their current total.
* If they lose a hand their bet is subtracted from their total.
* If the hand is drawn, then their total remains the same
* Can continue playing until their total is 0, but can choose to leave the game after any hand.

**Dealing**

* Initially both the dealer and the player will start off with 2 cards
* Once these cards are dealt, they have two choices **stick or hit**.
* Aim is to get a score of 21 w/o going over 21

**Scoring Explained Below:**

* If chosen **hit** – receive another card from the dealer.
* After receiving the card – have another choice to **stick or hit**
* they can hit or stay unless the new card brings the player over 21 (which means the player loses this round) a word for this is **Bust**
* If chosen to **stay** – means they are finished receiving cards for this round and it is up to the dealer to **beat** his score.
* Once the player and dealer both completed their own hand.
* The dealer has to continue until their hand has reached 17 or higher ( a dealer total of 17 including an ace valued as 11 , aka “soft 17”, should count the ace as one and hit again).

**Scoring**

* An ACE can be worth 1 or 11 (11 while the total is under 21 and 1 if 11 takes the total over 21)
* Number cards are scored by their number (2-10)
* All picture cards are worth 10 each.
* The best possible hand, a Blackjack, is an ACE and a 10 or a picture (11+10 =21).
* All other hands are judged by their score alone.
* If player holds a score of 22 or more, they are busted, they lost their immediately.
* If dealer busts, the player then wins independently of their final score.
* If dealer and player are both busted, the one with the highest score is the winner.
* If the scores are equal, then the bet is returned to the player with no gain or loss.
* If player wins, the amount they bet is returned to their total along with their winnings.
* If player loses then their bet is taken from them and removed from their total.