```
/* SELF ASSESSMENT
   1. Did I use appropriate CONSTANTS instead of numbers within the code?
      Mark out of 5: 5
      Comment: In all possible instances I used constants in the code.
   2. Did I use easy-to-understand, meaningful CONSTANT names formatted correctly in UPPERCASE?
      Mark out of 5: 5
      Comment: All constant names were meaningful and appropriate.
   3. Did I use easy-to-understand meaningful variable names?
      Mark out of 10: 10
      Comment: All variable names were appropriate and easy to understand.
   4. Did I format the variable names properly (in lowerCamelCase)?
      Mark out of 5: 5
      Comment:  All in lowerCamelCase.
   5. Did I indent the code appropriately?
      Mark out of 10: 10
      Comment:  Code coded appropriately.
   6. Did I use an appropriate loop to allow the user to enter their guesses until they win or lose?
      Mark out of 20: 20
      Comment:  The loop loops until the game is won or lost.
   7. Did I check the input to ensure that invalid input was handled appropriately?
      Mark out of 10: 10
      Comment:  Invalid input appropriately acted upon.
   8. Did I generate the cards properly using random number generation (assuming all cards are equally likely each time)?
      Mark out of 10: 10
      Comment:  I used the random number generator.
   9. Did I output the cards correctly as 2, 3, 4, ... 9, 10, Jack, Queen, King?
      Mark out of 10: 10
      Comment:  All cards were correctly output.
   10. Did I report whether the user won or lost the game before the program finished?
      Mark out of 10: 10
      Comment:  Correctly informed user if they won or lost before the end of the program.
   11. How well did I complete this self-assessment?
      Mark out of 5: 5
      Comment:  It works perfectly and creates an output as seen in the example.
   Total Mark out of 100 (Add all the previous marks): 100
*/
import java.util.Random;
import java.util.Scanner;

public class HigherLowerEqual {

        public static final int MAX_NUMBER = 13;
        public static final int NUMBER_OF_GUESSES = 4;

        public static void main(String[] args) {

                boolean finished = false;

                int currentCard = 0;
                int lastCard = 0;
                int correctGuesses = 0;

                Random generator = new Random ();
                Scanner input = new Scanner( System.in );

                while ( !finished )
                {

                        currentCard = 2 + generator.nextInt(13);

                        if ( lastCard != 0 )
                        {
                                System.out.println("Do you think the next card"
                                                + " will be higher, lower or equal?");


                                if (input.hasNext("higher"))
                                {
                                        if (currentCard > lastCard)
                                        {
                                                correctGuesses++;
                                        }
                                        else
                                        {
                                                finished = true;
                                        }
                                }
                                else if (input.hasNext("lower"))
                                {
                                        if (currentCard < lastCard)
                                        {
                                                correctGuesses++;
                                        }
                                        else
                                        {
                                                finished = true;
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                        }
                }
                else if (input.hasNext("equal"))
                {
                        if (currentCard == lastCard)
                        {
                                correctGuesses++;
                        }
                        else
                        {
                                finished = true;
                        }

                }
                else
                {
                        System.out.println("Your answer is not an "
                                        + "appropriate answer.");
                        finished = true;
                }
                input.next();
        }

        if (currentCard > 10)
        {
                if (currentCard == 11)
                {
                        System.out.println("The card is a Jack");
                }
                if (currentCard == 12)
                {
                        System.out.println("The card is a Queen");
                }
                if (currentCard == 13)
                {
                        System.out.println("The card is a King");
                }
                if (currentCard == 14)
                {
                        System.out.println("The card is an Ace");
                }
        }
        else
        {
                System.out.println("The card is a "+currentCard);
        }

        lastCard = currentCard;

        if (correctGuesses == NUMBER_OF_GUESSES)
        {
                finished = true;
        }


    }

    if (correctGuesses == NUMBER_OF_GUESSES)
    {
            System.out.println("Congratulations.  You got them all correct.");
    }
    else
    {
            System.out.println("Unlucky, please try again");
    }
    input.close();
  }

}
```