

2a. My program was written in Python and was created as a game to provide entertainment as well as display how Boolean logic can be used to check multiple qualities of an object and assign them different values. The video shows an execution of the code, which simulates a 1 hand version of Five Card Draw Poker. It also scans over the setup for the code as well as one of the chunks of analysis it does in order to determine the value of the hand.

2b. One of the primary points of the development process was research, I went in with the idea that an if statement can check if a card value is higher than another or if two cards had the same value, but I did not have nearly enough knowledge of the Python language in order to carry out the task when I started. I used many sources on the internet, primarily class-provided material and forum questions from other python programmers, to find libraries that could perform the functions I hoped to do. I then spent many hours using my incomplete knowledge to fulfill the ideas I had for my program. Once I had the outline for how the code was executed, I began the point of writing the code of the program. While I use libraries suggested on programming forums and my variables won't be totally unique, I wrote the entire program myself. I established a starting point, being the initial deal of a Five Card Poker hand, and an end point, being the determination of the value of this hand, and worked through each step along the way.

2c. The following is a selected portion of my code that is used to determine if the hand held by the player is a royal flush:

```
def check_RF():#Now that card values and suits can be easily checked, begins
checking what type of hand the player has, starting with the best hand, a royal
flush
```

[illegible]

```

        show_hand()
    else:#If They don't have the ten in that suit then it
is just a flush
        hand = 'Flush in ' + suits[0]
        show_hand()
    else:#If they don't have the jack in that suit, it doesnt
matter if they have the ten, no RF just a flush
        hand = 'Flush in ' + suits[0]
        show_hand()
    else:#If they don't have the queen in that suit, not a royal
flush, but it is a flush
        hand = 'Flush in ' + suits[0]
        show_hand()
    else:
        check_SF() #If the player has an Ace but no King, they could
have a 5 high straight flush
    else:
        check_SF() #If the high card is not an Ace, the hand could still be
a straight flush
    else:
        check_FOAK() #if not all cards same suit

```