SECTION 11: MILESTONE PROJECT - 2 hours 18 minutes, 12 sections

- 11/12 Solution Walkthrough Functions for Game Play
 - -> creating the functions which will be combined into the code for the game <- we are combining several smaller functions into the larger program

-> a function called take_bet

- -> the argument of this is chips
- -> there is a while loop
- -> while it's True -> in other words, while the game is being played
 - · -> it's asking for an integer input
 - -> then they try -> chips.bet <- betting and insuring that the input is in the right format
 - then we alter the logic according to the balance on the chip

-> she's then defined a function called take_bet

- -> accepting an input from the user
- -> the input needs to be in the right format -> she's made sure this happens with a while loop
- -> and given certain outputs depending on what the user inputs

-> then another function called hit

- -> the input is the deck and the hand
- -> it adds a card to the hand and checks for an ace adjustment

-> then another function hit_or_stand

- -> global playing
- -> while True -> it's asking for an input
- -> if the input is in a certain format -> it asks for the input again
- -> if the user inputs something e.g hit instead of h -> she is writing out the different things they could have entered -> and making sure that they lead to the same input in the computer (using a series of if / else loops)

-> then writing functions to display the cards

- -> the dealer's first card is hidden
- -> there are two situations -> defining functions for the different cases

showing some of the cards

- o show one of the dealer's cards and showing all of the player's cards / hand
- -> she's printing out statements -> the dealer's hand, that the first card is hidden
- -> the dealer has two cards -> from an OOP perspective
- -> dealer.cards[1] <- printing the second card of the dealer's hand

-> then writing a for loop -> showing 2 cards of the player's hand

- for card in player.cards:
 - print(card) -> not sure why they didn't just print cards (they iterated through the entire list instead)

-> then doing a similar process for the dealer's cards

- printing the value of the dealer's cards -> f string literals
- -> f"Text here: {name_of_variable}"

- -> the same as the .format method in Python (it's a method i.e a function .format()
- -> looping through all of the cards in the dealer's hand

○ **-> ***

- this is to print all of the cards in the collection, when you don't want to use a for loop
- -> print("/n Dealer's hand: ",*dealer.cards) <- this loops through every item and prints it out (* is for every / all)
 - -> this is the second argument of the print function -> loop through all of the items in this list and print them all out
- print("/n Dealer's hand: ",*dealer.cards,sep='\n') <- the sep is to add in a new line every time a new dealer card is printed out
 - · -> you could also *items e.g where items is an array

-> writing functions which handle each of the game scenarios

- player_busts
- -> player_wins
- -> dealer_wins
- -> dealer_busts
- → -> push
 - both of them tie <- printing out different messages for each of the cases (the player or the computer wins e.g)
- -> the last thing is to run the logic on the cards (to combine the functions into the program)

then showing all of the cards

- -> showing all of the dealer's cards and all of the player's cards
- -> who won the match
- -> calculating and displaying the value (e.g a Jack + a King = 20)

· -> overview

- o creating the functions which will be called in the next lecture
- -> a betting function, one which takes hits, a hit / stands one, then a few functions for the different cases / outcomes of the game