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

- **8/12 Milestone Project 2 Overview**
  - **-> OOP in Python**
    - -> starting a larger set project
    - -> a blackjack game with Python
    - -> coding along with the solutions lecture, or attempting the project on your own
    - -> debug / testing things out
    - -> the workbook as an in between
    - -> smaller and more handleable sub-problems

  - **-> the game**
    - -> a simplified version of blackjack
    - -> the dealer is the computer and the player is human

    - **-> black jack**
      - -> there is a deck of 52 cards
      - -> a bank roll
      - -> player places a bet (whether they think they will win or not)
      - -> then the player starts with two cards face up and the dealer two cards one face down one face up
      - -> the player can choose to hit or stay
      - -> she is leaving out certain parts of the game / rules in order to simplify the project
      - -> the aim is to get closer to the total of 21 than the computer
      - -> either the computer beats the player of goes over 21 (bust)

      - **-> different cases**
        - the player busts (has a score above 21)
        - -> the human beats the computer (the computer has a score above 21)
        - -> the player wins after the computer has its turn
        - **-> it's to do with getting a score above 21 -> adding more and more cards**
        - **-> there is also a bet number**

  - **-> special rules**
    - JQK cards count as 10
    - -> aces can count as a 1 or an 11 -> whichever the player wants them to count as (for this you will need an input statement)

  - **-> the .ipynb files on the git repo**
    - -> there is one with the solutions
    - -> another with the basic steps
    - -> this entire thing is black jack
    - -> there is a shell of the different classes which their solution uses
    - -> you can also go and use your own blank JN
    - -> then there is a while loop at the end
    - -> solution notebook and solution code notebook
    - -> you can use a txt editor and then run it in the terminal
    - -> a lecture (straight to the solutions), starting from scratch or going through the workbook which they give