

# 7Koder

An encoding/decoding system





# Rules/Working

- Asks the user whether to encode or decode.
- Checks the answer to make sure it makes sense.
- Asks the user for the message to be encoded/decoded.
- Checks the message complies with the requirements for translation.
- Outputs the translation





# Challenges

- Not even knowing where to start
- The second level of encoding being ambiguous to decode, so having to add another layer to give all the characters the same length.
- The decoder not working properly for dumb errors on the code.
- The decoder breaking down if the message passed was not encoded in my code.
- The final function having a tricky structure of for loops nested in while loops nested in while loops.
- Keeping calm when things don't work
- Balancing pragmatism with originality and robustness.



# Learnings

- Panicking won't help.
- Breaking it down into small pieces helps you advance faster and understand better your code once you encounter problems in the complex version.
- Sometimes you need to change the order of your conditions or some while loops will never break.
- Indentation in Jupyter sucks.
- Be organized.
- Comment everything.
- Listen to your teammates' ideas and ask for advice.



# Possible Improvements

- Make the encoding more complex and difficult to break.
- Make the decoding code less redundant.
- Improve the inputting of options and the interactions with the user.
- Possibly add safeguards in the decoding process