This assignment has three parts.

Part One: Programming

Insert your pseudocode here:

Input

        -ask users what they think the secret phrase is

Background

- Set secret phrase
- Encode secret phrase from the original set phrase
- Decode secret phrase from encoded phrase

Output

- Print the users guessed phrase
- Print the encoded phrase as a list
- Print the decoded phrase

Insert a copy of your code from IDLE here:

```
#Jack Sweeney 8/29/18
#asks a user what they think a phrase is then prints their guess and prints the encoded and
decoded version of the actual phrase.
def main():
        secretPhrase = "When something is important enough, you do it even if the odds are not
in your favor.-Elon Musk"
        userGuess = input("What do you think the secret phrase is?")

        secretPhraseEncoded = []
        secretPhraseDecoded = ""
        #Encoding Original
        for m in secretPhrase:
                                secretPhraseEncoded.append(ord(m))
        #Decoding Encoded
```

```
        for d in secretPhraseEncoded:
                        secretPhraseDecoded = secretPhraseDecoded + chr(d)


        print "Your Guess: " + userGuess
        print "Encoded Phrase: " + str(secretPhraseEncoded)
        print "Decoded Phrase: " + secretPhraseDecoded



main()
```

Part Three: Post Mortem Review
Complete the Post Mortem Review (PMR). Write thoughtful two- to three-sentence responses to all the questions in the PMR chart.

Review Question	Response
What was the purpose of your program?	The purpose of my program is too encode a secret phrase and decode it then show both versions. The program is also meant to ask a user what they think the phrase is.
How could your program be useful in the real world?	My program could be useful in the real world to teach people learning asci, binary help them by showing encoded and decoded versions. I could add multiple phrases and users have to match the correct decoded and encoded.
What is a problem you ran into, and how did you fix it?	A problem I had is that I tried using a list for the decoded which caused a space between all the letters of the decoded phrase. I fixed this by removing a list and just adding each character to a variable name.
Describe one thing you would do differently the next time you write a program.	The next time I write a program I'd like to add more choices then just one choice like in this program. So when I wrote this program I would have liked to add two phrased too choose from. To guess for