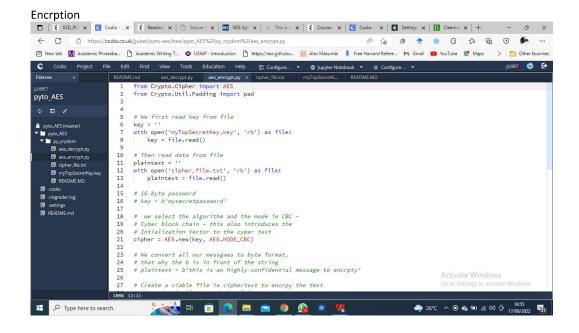
Read the Cryptography with Python blog at tutorialspoint.com (link is in the reading list). Select one of the methods described/ examples given and create a python program that can take a short piece of text and encrypt it.

Create a python program in Codio (you can use the Jupyter Notebooks space provided in the Codio resources section) that can take a text file and output an encrypted version as a file in your folder on the Codio system. Demonstrate your program operation in this week's seminar session.

Answer the following questions in your e-portfolio:

Why did you select the algorithm you chose? Would it meet the GDPR regulations? Justify your answer.

SEE SCREEN SHOTS

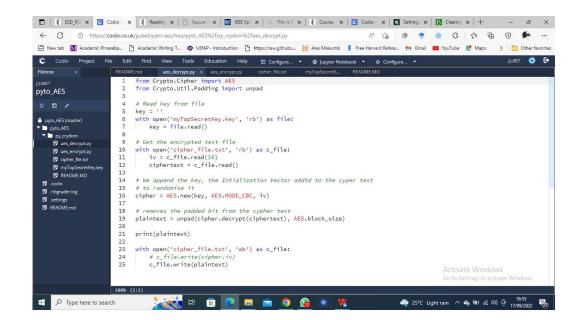


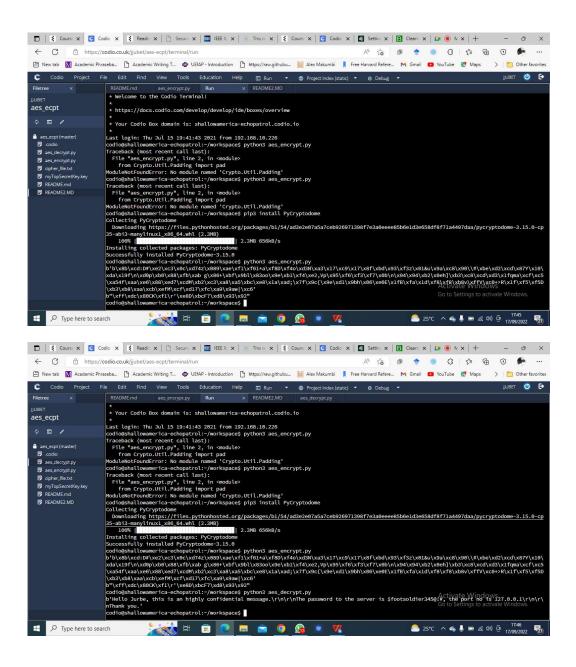
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📑 | § SSD_PC: X 💽 Codio- X | § Reading X | 🖰 Secure: X | 🛅 IEEE Xpi X | 🥌 This is h X | § Course: X | 🖫 Codio- X | 🚳 Settings: X | 🖺 Clearing X | + - Ø X
  ← C 🗈 https://codio.co.uk/jjubet/pyto-aes/tree/pyto_AES%2Fpy_crydom%2Faes_encrypt.py
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                                                                                                                                                                                      TINBEL 🕡 🕒
 Filetree
                                                                  aes_encrypt.py ×
 pyto_AES
                                18 # we select the algorithm and the mode ie CBC -
                                    # Cyber block chain - this also introduces the
# Intialization Vector to the cyper text
cipher = AES.new(key, AES.MODE_CBC)
                                19

    pyto_AES (master)
    pyto_AES
    pyto_AES
    py_crydom
    aes_decrypt_py
    elipher_file_tot

                                    # We convert all our messgaes to byte format,
# that why the b is in front of the string
# plaintext = b'this is an highly confidential message to encrpty'
                                23
                                24
                               25
26
27
28
                                     # Create a viable file ie ciphertext to encrpy the text
# the pad vairable to pad the plain
# text to ensure it fit multiple of 128 bits
                                29
30
   ciphertext = cipher.encrypt(pad(plaintext, AES.block_size))
                                31
32
33
34
35
36
37
38
                                      print(ciphertext)
print(cipher.iv)
                                     # OUTPUT OUR ENCRYPTED FILE TO A TEXT FILE
                                      with open('cipher_file.txt', 'wb') as c_file:
    c_file.write(cipher.iv)
    c_file.write(ciphertext)
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```

Decryption





Why did you select the algorithm you chose?

AES Encryption is known as a secure encryption algorithm.

Would it meet the GDPR regulations? Justify your answer.