

ActivitiesTerminal

dan@dan-Alienware-m15: ~/Documents/School/CIS110/Projects/Wk5

Open

FileEditViewSearchTerminalHelp

dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk5\$  
dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk5\$ python3 dominguez\_program5.py  
This program uses a basic (Ceasar)Substitution Cypher to encrypt a message.  
Please enter the message to encode: the ships sail at midnight  
Enter Key Value: 1  
-----  
Encrypted string: uif!tijqt!tbjm!bu!njeojhiu  
Unencrypted string: the ships sail at midnight  
-----  
Daniel Dominguez  
CIS110 Program 5  
Fri Jun 21 15:31:41 2019  
dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk5\$ python3 dominguez\_program5.py  
This program uses a basic (Ceasar)Substitution Cypher to encrypt a message.  
Please enter the message to encode: testing z  
Enter Key Value: 1  
-----  
Encrypted string: uftujoh!a  
Unencrypted string: testing z  
-----  
Daniel Dominguez  
CIS110 Program 5  
Fri Jun 21 15:32:06 2019  
dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk5\$

Fri 15:32

dominguez\_program5.py  
~/Documents/School/CIS110/Projects/Wk5

Save

'''  
Program Name:dominguez\_program5.py  
Program Description:This encrypts a message using a substitution cypher(caesar)  
Author:Daniel Dominguez  
Date Created:6/21/19  
Notes of Interest: This one was fun!  
'''  
import time  
def main():  
 print("This program uses a basic (Ceasar)Substitution Cypher to encrypt a message.")  
 message=input("Please enter the message to encode: ")  
 key=int(input("Enter Key Value: "))  
 message=message.lower()  
 codedMessage=[]  
 decodedMessage=[]  
 lowCap=96  
 maxCap=122  
  
 #Encoding Starts Here  
  
 for i in message:  
 codedChar=ord(i)+key  
  
 #Check to see if the new encoded char is out of  
range  
 if ord(i)+key>maxCap:  
 #If the character ordinance is out of range,  
subtract the max value from it and then add it to the minimum value  
 codedMessage.append(chr((codedChar-maxCap)+lowCap))  
 else:  
 #otherwise just store the value with the key  
applied  
 codedMessage.append(chr(int(codedChar)))  
 #Decoding Starts Here  
  
 for n in codedMessage:  
 #If the ordinance-key-lowcap is less than or  
equal to 0 or the low cap (a)  
 if (int(ord(n))-key)-lowCap<=0 and chr(int(ord(n))-key)!=lowCap:  
 #treat this as a special case  
 decodedMessage.append(chr((((int(ord(n))-key)-lowCap)+maxCap)))  
 else:  
 #otherwise apply regular decryption algorithm  
 decodedMessage.append(chr(int(ord(n))-key))  
 #join the list together and "update" variable  
 decodedMessage="".join(decodedMessage)  
 print("-----")  
 print("Encrypted string: ","".join(codedMessage))  
 #Print the decoded message, and repalce : from  
encryption with spaces  
 print("Unencrypted string: ",decodedMessage.replace(":", " "))  
 print("-----")  
 print("Daniel Dominguez")  
 print("CIS110 Program 5")  
 print(time.asctime(time.localtime(time.time())))  
main()

PythonTab Width: 8Ln 1, Col 1INS