LAPORAN PRAKTIKUM

PRAKTIK SISTEM KEAMANAN DATA

ALGORITMA VIGENERE CHIPER

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Hasil Praktikum

Script :

```
def generateKey(string, key):
  key = list(key)
  if len(string) == len(key):
    return(key)
  else:
    for i in range(len(string) -len(key)):
      key.append(key[i % len(key)])
  return("" . join(key))

def encryption(string, key):
  encrypt_text = []
  for i in range(len(string)):
    x = (ord(string[i]) +ord(key[i])) % 26
    x += ord('A')
    encrypt_text.append(chr(x))
  return("" . join(encrypt_text))
def decryption(encrypt_text, key):
  orig_text = []
  for i in range(len(encrypt_text)):
    x = (ord(encrypt_text[i]) -ord(key[i]) + 26) % 26
    x += ord('A')
    orig_text.append(chr(x))
  return("" . join(orig_text))
if __name__ == "__main__":
  string = input("Enter the message: ")
  keyword = input("Enter the keyword: ")
```

```
key = generateKey(string, keyword)
encrypt_text = encryption(string,key)
print("Encrypted message:", encrypt_text)
print("Decrypted message:", decryption(encrypt_text, key))
```

Output :