In [ ]:
```
import cv2
import os
```

In [ ]:
```
d={}
c={}
for i in range(255):
    d[chr(i)]=i
    c[i]=chr(i)
```

In [ ]:
```
#Encrypt image

x=cv2.imread("B:\projects\personal\STEGANOGRAPHY\image1.jpeg")

i=x.shape[0]#prints dimension
j=x.shape[1]

print(i,j)
```

```
1200 1200
```

```
<>:3: SyntaxWarning: invalid escape sequence '\p'
<>:3: SyntaxWarning: invalid escape sequence '\p'
C:\Users\Lucifer\AppData\Local\Temp\ipykernel_5520\2755641017.py:3: SyntaxWarning: i
nvalid escape sequence '\p'
  x=cv2.imread("B:\projects\personal\STEGANOGRAPHY\image1.jpeg")
```

In [ ]:
```
passkey=input("Enter your password:")
txt=input("Please enter your secrete message:")
```

In [ ]:
```
kl=0
tln=len(txt)
p=0
q=0
r=0
l=len(txt)
for i in range(l):
    x[p,q,r]=d[txt[i]]^d[passkey[kl]]
    p=p+1
    q=q+1
    q=(q+1)%3
    kl=(kl+1)%len(passkey)
```

In [ ]:
```
cv2.imwrite("image.jpeg",x)
os.startfile("image.jpeg")
print("SUCCESS hiding")
```

```
SUCCESS hiding
```

In [ ]:
```
#Decryption
kl=0
tln=len(txt)
p=0
q=0
```

```
r=0
ch=int(input("Enter 1 to extract an image: "))
```

In [ ]:
```
if ch==1:
    key1=input("Enter the password to extract the image:")
    decrypt=""
    if passkey==key1:
        for i in range(l):
            decrypt+=c[x[p,q,r]^d[passkey[kl]]]
            p=p+1
            q=q+1
            q=(q+1)%3
            kl=(kl+1)%len(passkey)
        print("Encrypted text was : ",decrypt)
    else:
        print("error breach!!!!!!!!!!!")
else:
    print("Thank you")
```

```
Encrypted text was :  Hello My self bhargab
```

In [ ]:
```

```