```
import cv2
import string
import os
d={}
C={ }
for i in range (255):
    d[chr(i)]=i
    c[i]=chr(i)
 #print(c)
x=cv2.imread("C:/Users/VISHNU VARDHAN/Downloads/New folder (2)/abd.jpg")
i=x.shape[0]
j=x.shape[1]
print(i,j)
 key=input("Enter key to edit(Security Key) : ")
 text=input("Enter text to hide : ")
kl=0
 tln=len(text)
z=0 #decides plane
n=0 #number of row
m=0 #number of column
l=len(text)
for i in range(l):
    x[n,m,z]=d[text[i]]^d[key[kl]]
    n=n+1
    m=(m+1) %3 #this is for every value of z , remainder will be between 0,1,2 . i.e G
                 #whatever be the value of z , z=(z+1)\,\%3 will always between 0,1,2 . The sum of z
     kl = (kl+1) %len(key)
cv2.imwrite("encrypted img.jpg",x)
os.startfile("encrypted img.jpg")
print("Data Hiding in Image completed successfully.")
 #x=cv2.imread("encrypted img.jpg")
kl=0
 tln=len(text)
z=0 #decides plane
n=0 #number of row
m=0 #number of column
ch = int(input("\nEnter 1 to extract data from Image : "))
if ch == 1:
     key1=input("\n\nRe enter key to extract text : ")
    decrypt=""
     if key == key1 :
         for i in range(l):
             decrypt+=c[x[n,m,z]^d[key[kl]]]
             n=n+1
             m=m+1
             m = (m+1) %3
             kl = (kl+1) %len(key)
        print("Encrypted text was : ",decrypt)
     else:
         print("Key doesn't matched.")
else:
    print("Thank you. EXITING.")
224 224
Enter key to edit(Security Key) : 12345
Enter text to hide : I am working
Data Hiding in Image completed successfully.
Enter 1 to extract data from Image : 1
Re enter key to extract text : hey
Key doesn't matched.
```