

Read the Cryptography with Python blog at [tutorialspoint.com](https://www.tutorialspoint.com).

Select one of the methods described/examples given and create a python program that can take a short piece of text and encrypt it.

```
import pyDes

message = input('Type in your message: ')

k = pyDes.des("DESCRYPT", pyDes.CBC, "\0\0\0\0\0\0\0\0", pad=None,
padmode=pyDes.PAD_PKCS5)
d = k.encrypt(message)

print ("Encrypted:%r" %d)
print ("Plain text: %r" %k.decrypt(d))
```

result:

```
Type in your message: DES Algorithm Implementation
Encrypted:b'\xd6V\xf2\xffW\x16\xda\xa8r\x12\x9bi\xce\xect\x93\xef\t4\xf4!\xc2\x91\x8dA\xf3\x0b\x10\xfc\x97\xcf\xb2'
Plain text: b'DES Algorithm Implementation'
PS C:\PW\onlinestore>
```

1.

Why did you select the algorithm you chose?

DES has been around a long time and it is an official United States Government standard. It supports functionality to save a file in an encrypted format which can only be accessed by supporting the correct password. (tutorialspoint.com , n.d.)

2.

Would it meet the GDPR regulations? Justify your answer.

The GDPR does not mandate the use of encryption in all circumstances hence it meets GDPR requirements.

References:

tutorialspoint.com , n.d. What are the advantage and disadvantage of DES. Available from:<https://www.tutorialspoint.com/what-are-the-advantage-and-disadvantage-of-des#:~:text=DES%20is%20also%20an%20ANSI,by%20supporting%20the%20correct%20password>. [Accessed 24 May 2022]