

Question no.1

Radix-64 encoding

What is the result of Radix-64 encoding for the string "Diffie."

Please explain how you reach your answer.

⇒ Answer:

Radix-64 encoding is a binary-to-text encoding scheme representing binary data in an ASCII string format. It uses a set of 64 characters that are all printable ASCII characters to represent the data.

Here's how we can convert the ASCII characters in "Diffie" to their corresponding binary values IN 8-BITS:

D -> 68 -> 01000100  
i -> 105 -> 01101001  
f -> 102 -> 01100110  
f -> 102 -> 01100110  
i -> 105 -> 01101001  
e -> 101 -> 01100101

Next, we group the binary digits into 6-bit chunks:

010001 000110 100101 100110 011001 100110  
100101 100101

Next, we convert each 6-bit chunk to its corresponding Radix-64 character using the following table:

Value	Char
0-25	A-Z
26-51	a-z
52-61	0-9
62	+
63	/

To map this to its corresponding Radix-64 character, we first convert it to decimal, and the corresponding answer in the table are as follows:

010001 -> 17 -> R  
000110 -> 6 -> G  
100101 -> 37 -> l  
100110 -> 38 -> m  
011001 -> 25 -> Z  
100110 -> 38 -> m  
100101 -> 37 -> l  
100101 -> 37 -> l

The Radix-64 encoded string for "Diffie" is "RGlmZmll."

Question no.2

Use PGP Tool to generate your public key and Private key, then encrypt a message (your name and student ID as a message) and decrypt the message. Show steps with screenshots as evidence.

<https://pgptool.org>

⇒ Generate PGP keys.:

The screenshot shows the PGP Tool website interface. The browser address bar displays 'pgptool.org'. The page title is 'PGP TOOL' with the subtitle 'A simple and secure online client-side PGP Key Generator, Encryption and Decryption tool. Generate your PGP Key pairs, encrypt or decrypt messages easily with a few clicks.' The navigation menu includes 'Generate PGP Keys', 'Sign', 'Verify', 'Encrypt (+Sign)', 'Decrypt (+Verify)', 'FAQ', and 'About'. The 'Generate PGP Keys' section is active, showing a form with the following fields: 'Name' (Yunisha Basnet), 'Email address' (ybasnet1262@student.sfbu.edu), 'Optional comments', 'Key type' (RSA (Recommended)), 'Key size' (4096 bits (more secure) [Recommended]), 'Expiration date' (Never), and 'Passphrase' (masked with dots). A green 'Finished' button is at the bottom of the form. To the right, the 'Public Key' and 'Private Key' sections are displayed. The 'Public Key' section shows a long alphanumeric string and a 'Download public key (ASC file)' button. The 'Private Key' section shows a similar string and a 'Download private key (ASC file)' button.

- Public key:  
-----BEGIN PGP PUBLIC KEY BLOCK-----  
Version: Keybase OpenPGP v2.0.76  
Comment: <https://keybase.io/crypto>

xsFNBGQsvVMBEADn5lhQ7kgy9XH3avHGFT8Pq  
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-----END PGP PUBLIC KEY BLOCK-----

- Private key:

-----BEGIN PGP PRIVATE KEY BLOCK-----

Version: Keybase OpenPGP v2.0.76

Comment: <https://keybase.io/crypto>

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-----END PGP PRIVATE KEY BLOCK-----

⇒ Encrypt message:

The screenshot shows the PGP Tool - Online PGP Key Generator, Encryption and Decryption tool interface. The browser address bar shows 'pgptool.org'. The page has a navigation bar with links: Generate PGP Keys, Sign, Verify, Encrypt (+Sign), Decrypt (+Verify), FAQ, and About. The main content area is divided into four sections:

- Receiver's Public Key:** A text area containing a public key block starting with 'mUmZdoiMG39otsbueN3dt/pUu3HGLatgiWWZcs0Gwge/'. Below it is a 'Choose File' button and the text 'No file chosen'.
- Signer's Private Key (For signing purpose):** A text area containing a private key block starting with 'WGfFvLjXNHQ8B8C+'. Below it is a 'Choose File' button and the text 'No file chosen'.
- Your Message in Plain Text:** A text area containing the message 'Yunisha Basnet 19706'. Below it is a 'Choose File' button and the text 'No file chosen'.
- Encrypted PGP Message:** A section with a green status bar indicating 'Message successfully encrypted and signed.' Below it is a text area containing the encrypted message block starting with 'wcFMA2Ey721Zb0cnAQ/U10JPM1pJQCf3wkn+iPw5RJ/fqNkYhK8XxIXtW2zvMXq'.

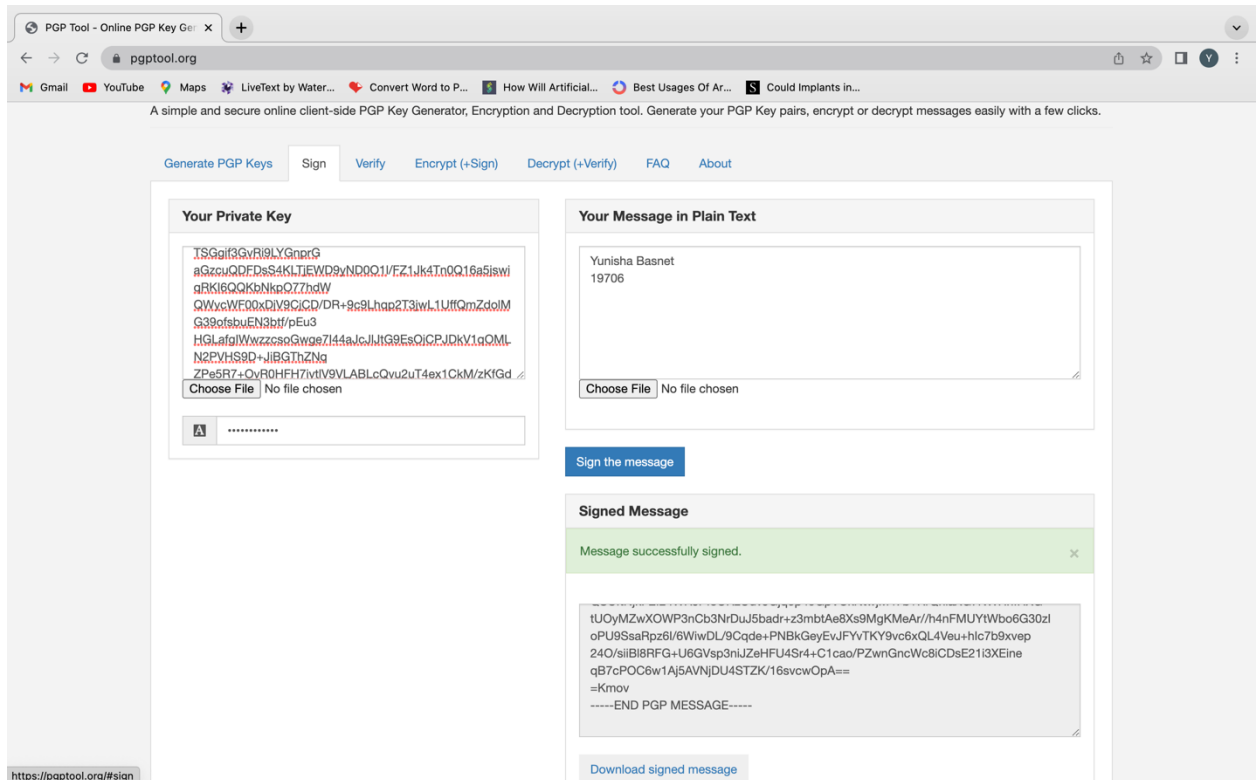
At the bottom left, there is a URL: 'https://pgptool.org/#signencrypt'.

- Encrypted PGP message:  
Pw5RJ/fqNkYhK8XxIXtW2zvMXq  
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2aVJU0yEvUafj7ZQT/Nn5V  
N0cmlZLOQHMezhRZwQP+osSlzl4rG79Z0hGoO  
Ba/33N+k+sOWr6eMaHvYXghuq1m  
pdNWZGXZh/FBrBGls6g2GNANs9Y0jH2YoC4byn  
JVyafPTTxQjGGGc71WWVrQu/MZ  
KjPncsqAN8WMuVsRgq/RuBDt1eViWafVTXaafk  
hPadwna90mvWTsZGF2Wc2CvamO  
50t4SblpDyCEAjxZnK6pyE3IKZpkNwzkd2pQeRg  
fZ5+d7v/V1wts5RQdKgB6lvy

R4ulxRAj4J1Eg7ab5GFGSJiRONSkAwx5brjYEqO+  
M8EP4KFIRbSV7LKG2ibsvgMV  
IEfaz5sfQjGe6P936NyVqklbUGFxxOy70uJey3l8c  
ZSCUFB2S83MpwwaFx4Slk4x  
Fm3/6yJSYbwFLOzrJ48Q7AO4m6q+hoaNCJHB5l  
/gyFjPdTeF95Qf4ejJ86Z8n/S/  
1IR+LpU7uV5nw4YyCW2lKOHXxmprHASj/SA5bK  
/y4ECZQclBNlmafuYhHyMVJxVY  
3tjXYf7/UPI3+R+9bAiYrfTzGE3Ugkc460mMx2db  
WSo1RiO7A2ERy6XFm17UDEeC  
F9xAZJZdjJ8+7pOOtZTYalHANQKjMgAEDO0iApk  
JQlePX6PtoN8WHp8WEz5vt6Qt  
nEllu7AXa4W6SaHh0yqmrahqgdHi1e4MuRRXFb  
ly3fJ+Ke80Pfa5/WPwcpKWvvhO  
6l3+LJOzVtvBBOUt63dERczpMRDD  
=3V4o  
-----END PGP MESSAGE-----

⇒ Sign:



- Singed message:

-----BEGIN PGP MESSAGE-----

Version: Keybase OpenPGP v2.0.76

Comment: <https://keybase.io/crypto>

yMGWAnicAUoCtf3EDQMACgFhMu9tWW9HJw

HLGnUAZCy+y1l1bmlzaGEgQmFzbmV0

CjE5NzA2wsFcBAABCGAGBQJkLL7LAAoJEGEy721

Zb0cn0q4QAJIJNecvlg5aXAtJ

Tistld0iT+J0l1XmNEuZXib4B2y3iWnJj4ElRn8+21

Q5n5XX89FyQm7YSs6QEeqjR

gy+CTddiCmh1fAg3cjW0ljRxqPXW5lkFideJe32C

D+szVM537Ro9pbz7W+y2SDyP

ViSgcS/NiekahS8+ZCB9nhDmeIYK2vsb9bPSKHA+  
VDchBmcVNrWhqZ2sHr6dK0oF  
++M3FrOyfx5fsrD46Rovi4bdm9VST/cKq2i0GxUx  
wkC3PDPhQ5yArj7d7vQ2hbBK  
hysiLKQwk3TxAguTgkzaCVYVUIE9ixqHI414gkNVI  
Bia2z6bL1I48Wi/B77eADMZ  
meFmMXImECLtvSDnrgkxtbyWxaV8ayUX0o3xzF  
yXKwdtBp8BUCecgJC9S+GWz8A6  
QSCftNjkFEf24WRJPf8ORzOuvJGjq6p49GpVCkNt  
wjM47b+RrQhlaXG7NWHhfHXG  
tUOyMZwXOWP3nC3NrDuJ5badr+z3mbtAe8X  
s9MgKMeAr//h4nFMUYtWbo6G30zl  
oPU9SsaRpz6l/6WiwDL/9Cqde+PNBkGeyEvJFYv  
TKY9vc6xQL4Veu+hlc7b9xvep  
24O/siiBl8RFG+U6GVsp3niJZeHFU4Sr4+C1cao/P  
ZwnGncWc8iCDsE21i3XEine  
qB7cPOC6w1Aj5AVNjDU4STZK/16svcwOpA==  
=Kmov  
-----END PGP MESSAGE-----

⇒ Decrypt:

PGP Tool - Online PGP Key Generator

pgptool.org

Generate PGP Keys Sign Verify Encrypt (+Sign) Decrypt (+Verify) FAQ About

**Receiver's Private Key (For decryption purpose)**

```

qRK16QQkbNkpQ7ZhdW
QWycWE00xDIV9GjCD/DR+9c9Lhap2T3jwL1UffQmZdoiM
G39ofsbuEN3btf/pEu3
HGLafglWwzccspGwge7I44aJcJIUG9EaQICPJDKV1aOML
N2PVHS9Q+JIBGTHZnq
ZPe5R7+QyBQHfH7jwV9VLABLcQvu2uT4ex1CkM/zKIGd
DdF4W+rGir1zorgERH
WYRNH7E=

```

Choose File No file chosen

**Encrypted PGP Message**

```

meF-mMXimeCLtVSUnrgkxtbyWxaV8ayUX0c3xzF-yXKwotsp8BUCecgJC9S+GWZ8A6
QSCftNjkFEt24WRJPF8ORzOuvJGjg6p49GpVCkNtwjM47b+RrQhlaXG7NWihfhXG
tUOyMZwXOWP3nCb3NrDuJ5badr+z3mbtAe8Xs9MgKMeAr/h4nFMUYtWbo6G30zl
oPU9SsaRpz6l/6WiwDL/9Cqde+PNBkGayEvJFYvTKY9vc6xQL4Veu+hlc7b9xvep
24Q/siiB8RFG+U6GVsp3niJZeHFU4S4+C1cao/PZwnGncWcBICDsE213XEine
qB7cPOC6w1Ai5AVNI4USTZK/16svxwQpA==
-Kmox
-----END PGP MESSAGE-----

```

Choose File No file chosen

Decrypt the message

**Signer's Public Key**

```

mOn6JWQ9XTsieaQGRu
XiaR8nb/Au+AanJ8b3abLC00xZ+iWPZ6jkonhm1TABERAA
HCw4QEGAEKA8FAmQs
yVMFCQAAAAACGv4CKQkQbTaa7qINKnDBXSAEGQEKa
AYFamQsvVMACakQYTLvpVly
RyeQSw/+KeWuyQR7upYtwXGZc4en57zeFYpWXXU4foXW
+Qiz5KwVloSJQA4VCoF
aLA02ixenWPMRhG4NNIHPRbNFnG+JV6IRF9JwIDXECh

```

Choose File No file chosen

**Decrypted Message in Plain Text**

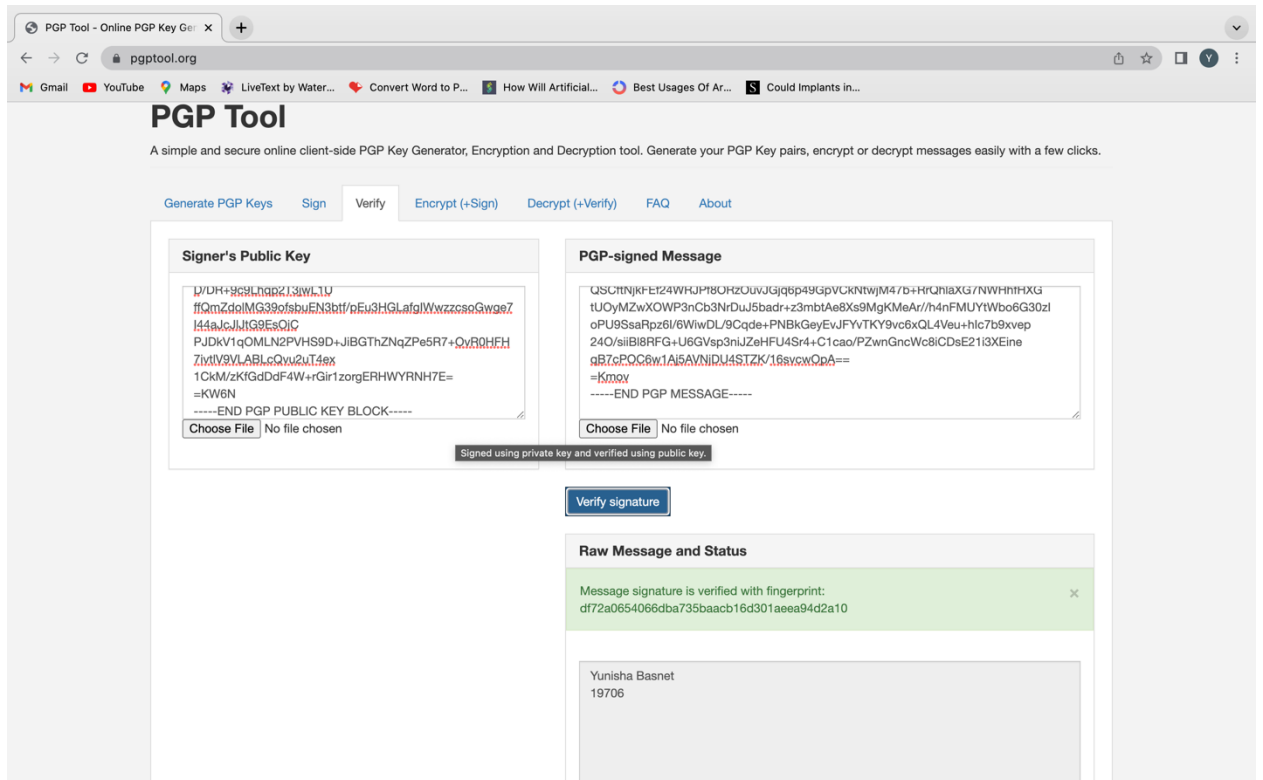
Message is decrypted by priv, and signature is verified successfully by pub - with fingerprint d772a0654066dba735baacb16d301aeea94d2a10

Yunisha Basnet  
19706

Download decrypted text Download as binary

- Decrypted Message Plain Text:  
Yunisha Basnet  
19706

⇒ Verify:



- Raw message and status:  
Yunisha Basnet  
19706