# BABU BANARASI DAS UNIVERSITY



# SCHOOL OF COMPUTER APPLICATION

## Department of Computer Application

## BCACSN11

Session 2025-26

# PRACTICAL LAB FILE

**SUBMITTED BY :-**                                            **SUBMITTED TO:-**

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SECTION –   BCACS11

ROLL NO - 1250264055

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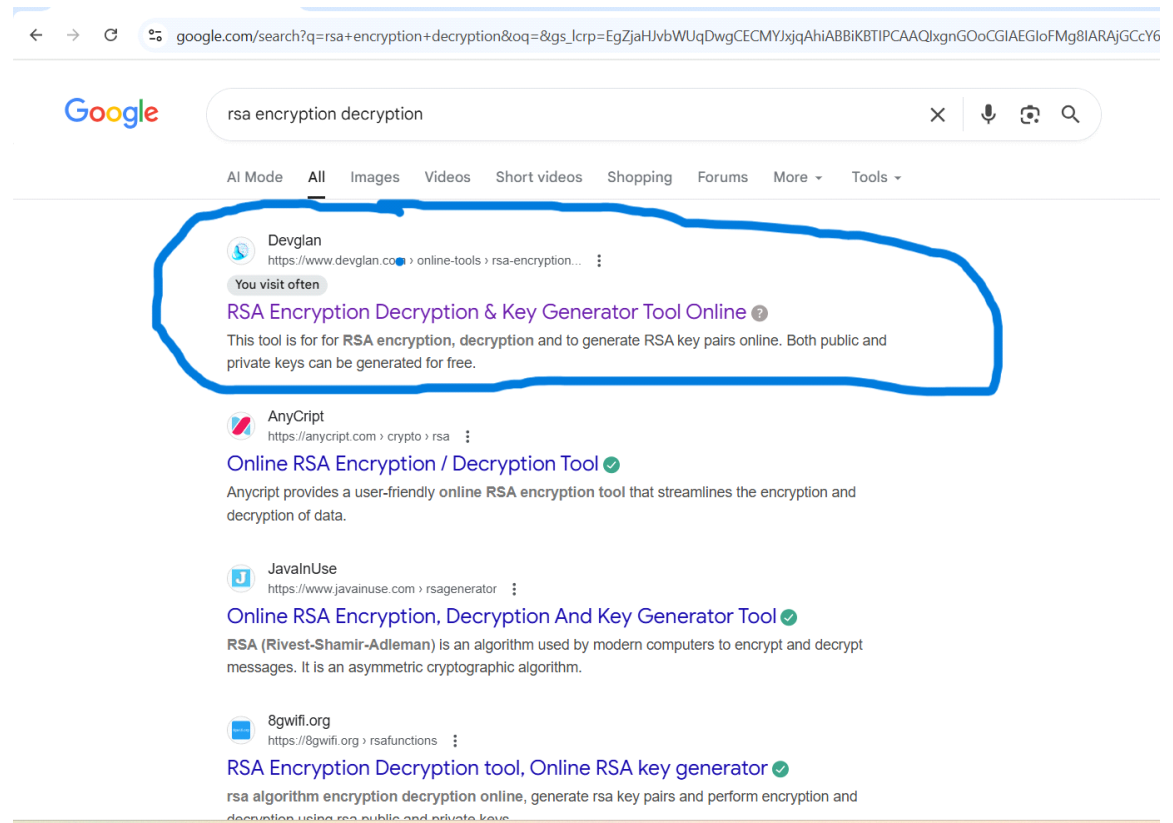| | | | Remark |
|---|---|---|---|
| 1. | RSA encryption decryption using public and private key. | | |
| | | | |

# Practical

## RSA Incryption decryption

**Definition :** Rsa is a public-key cryptographic algorithm usedbto secure data transmission. It uses two keys- a public key for encryption and a private key for decryption.
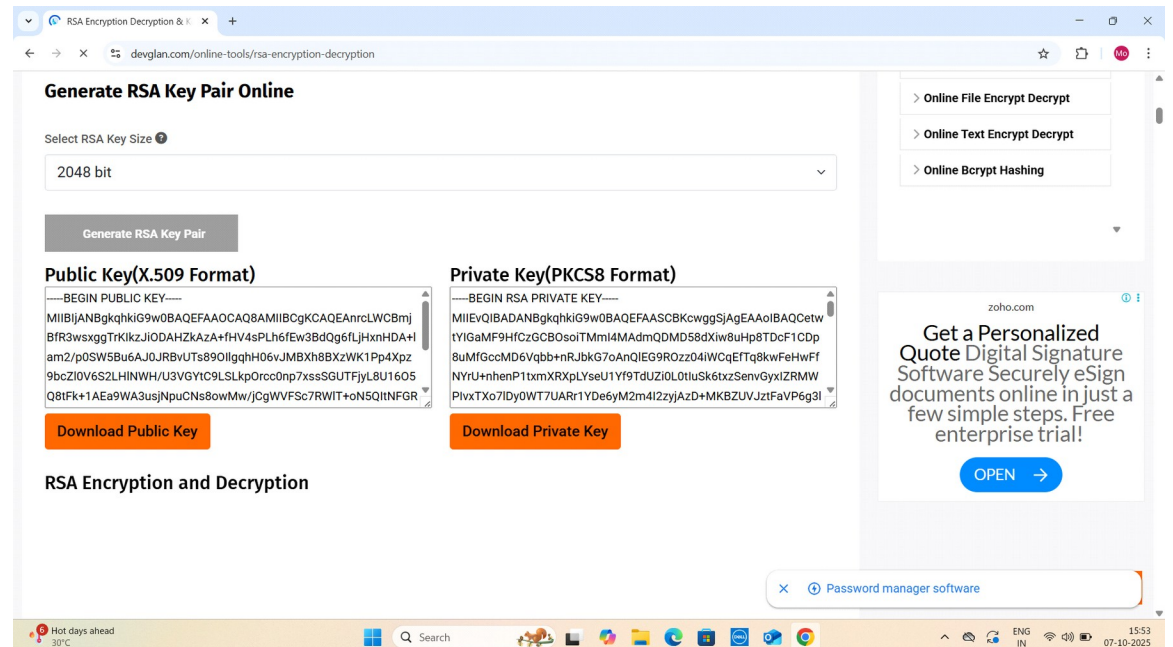
**tools:**

* Google chrome

* Incryption & decryption website

**Step 1:** Open google and search RSA Encryption and deccryption.



**Step 2:** Click first link.



**Step 3:** Generate RSA key pair.

Step 4: Enter plain text to Encrypt in RSA Encryption.



Step 5:The data has been encrypted .

Step 6: The encrypted data was copied and pasted into RSA decryption.



Step 7: Then decrypt.

Enter Plain Text to Encrypt ?

Mohd Naim

Enter Encrypted Text to Decrypt (Base64) ?

LDIdIjTgpP3Zw69WbjHZLXlfscssPR5GWh0pT505RglCQquKo97C4+Z
SyriIdyNUmkMZpwxLVB7lDl+ul6gRQwSHVtsgg1GhAdYPbYienvlcLLM
yUUZdHA0wbrDf5yiaUAQ43VAYvCpFAgh1uhFlDWKLNNmxNMRQh3i9
JM9/dqPeISdm+IXQ==

Enter Public/Private key ?

9bcZl0V6S2LHlNWH/U3VGYtC9LSLkpOrcc0np7xssSGUTFjyL8U16O5
Q8tFk+1AEa9WA3usjNpuCNs8owMw/jCgWVFSc7RWlT+oN5QltNFG
RavF+RnSRfr4uaTLjO8pv0+HP1n2X/JWVTdScwP40p3tE/9ERl8QOtu
gyNpzAdcshVmsqls9+rCcbYgNECwuo2tTjFxoEY3uU5Is8BXb5C+cRi1
ssbnokwlDAQAB
-----END PUBLIC KEY-----

Enter Public/Private key ?

-----BEGIN RSA PRIVATE KEY-----
MIIEvQIBADANBgkqhkiG9w0BAQEFAASCBKcwggSjAgEAAoIBAQCetw
tYlGaMF9HfCzGCBOsoiTMml4MAdmQDMD58dXiw8uHp8TDcF1CDp
8uMfGccMD6Vqbb+nRJbkG7oAnQlEG9ROzz04iWCqEfTq8kwFeHwFf
NYrU+nhenP1txmXRXpLYseU1Yf9TdUZi0L0tIuSk6txzSenvGyxIZRMW
PIvxTXo7lDy0WT7UARr1YDe6yM2m4I2zyjAzD+MKBZUVJztFaVP6g3l

RSA Key Type: ? ● Public key ○ Private Key

RSA Key Type: ? ○ Public key ● Private Key

Select Encryption Algorithm ?

RSA/ECB/PKCS1Padding

Select Decryption Algorithm ?

RSA/ECB/PKCS1Padding

**Encrypt**

**Decrypt**

Encrypted Output (Base64):

HaFdS15sBC04y/Gzr8EqKFgs6zt70EorVKsBSgM7zY0YCEoNjJ3gRTh
9nNb8iKxx3LW/1w0P6w3DdgL0/5SExwmhX7EVxeH4lP2qITmlTmlQ
wT4xYyjzNbgwp5ANjbZ9NsS8X1xVu3/4N1ZoSlKWn2AGnzcCRFCUjf
LDIdIjTgpP3Zw69WbjHZLXlfscssPR5GWh0pT505RglCQquKo97C4+Z
SyriIdyNUmkMZpwxLVB7lDl+ul6gRQwSHVtsgg1GhAdYPbYienvlcLLM

Decrypted Output:

Mohd Naim

× ⊕ Password

30°C