

EDUNET FOUNDATION-Class Exercise

Lab1: Demonstrating Public Key Cryptography

Step 1: First visit the following link: <http://www.narbona.net/uah/Crypto.html>

Public-Key encryption Demo

Step 1: Generate Keys

Press the button to generate a pair of randomly chosen keys.

- The **public key** will be posted in a public key repository where anyone can find it.
- The **private key** should be known only to you.

Generate keys: Public key: Private key:

Step 2: Encrypt the message

Now type in a short message and enter one of the keys from above. Then press the button.

Message: Encryption key:

The encrypted message:

Step 3: Decrypt the message

Pretend that you have received the encrypted message over the Internet. Now enter an appropriate decryption key and press the "Decode" button.

Hint: If you used one of the two keys generated in step 1, the other key works here.

Decryption key:

The decrypted message:

Step 2: Next step generate keys. To generate keys, click on generate keys button.

Step 1: Generate Keys

Press the button to generate a pair of randomly chosen keys.

- The **public key** will be posted in a public key repository where anyone can find it.

The **private key** should be known only to you.

Generate keys: Public key: Private key:

Step 1: Generate Keys

Press the button to generate a pair of randomly chosen keys.

- The **public key** will be posted in a public key repository where anyone can find it.

The **private key** should be known only to you.

Generate keys: Public key: Private key:

Step 3: Next, Type short message and enter public encryption key. Then click on encode message button to encrypt the message.

Step 2: Encrypt the message

Now type in a short message and enter one of the keys from above. Then press the button.

Message: Encryption key:

The encrypted message:

Step 4: Now enter decryption key and click on decode message button to decrypt the message.

Step 3: Decrypt the message

Pretend that you have received the encrypted message over the Internet. Now enter an appropriate decryption key and press the "Decode" button.

Hint: If you used one of the two keys generated in step 1, the other key works here.

Decryption key:

The decrypted message: