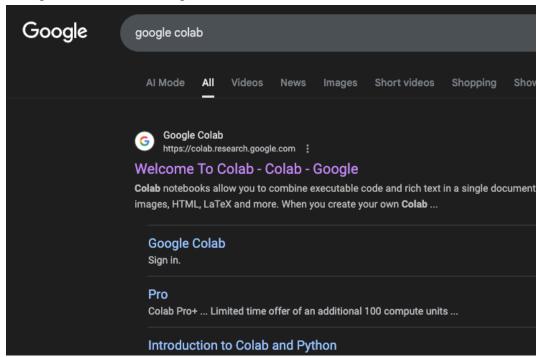
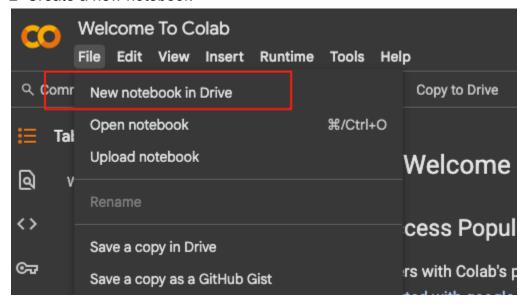
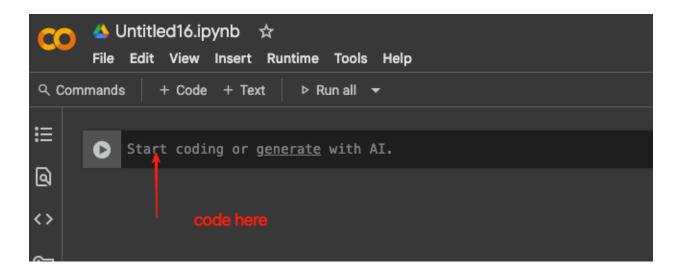
## 1 Register a user of Google Colab



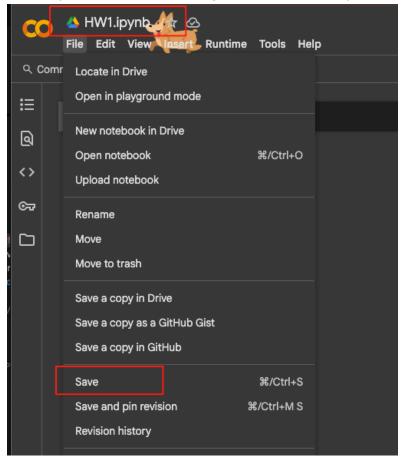
## 2 Create a new notebook



3 Enter the notebook and start coding.



4, Save your code before closing it. (Give a name of your notebook)



```
**Requirement already satisfied: cryptography in /usr/local/lib/python3.12/dist-packages (43.0 Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.12/dist-packages (from Requirement already satisfied: pycparser in /usr/local/lib/python3.12/dist-packages (from cryptography)
```

## Copy the code!

```
%pip install cryptography
```

## Copy it into your Colab.

```
import base64
from cryptography.hazmat.primitives.ciphers.aead import AESGCM
def b64decode padded(s: str) -> bytes:
  s = s.strip()
  missing = (-len(s)) % 4
  if missing:
       s += "=" * missing
  return base64.b64decode(s)
def decrypt homework(ciphertext b64: str, key b64: str, nonce b64: str,
aad b64: str) -> str:
   key = b64decode padded(key b64)
  nonce = b64decode padded(nonce b64)
  aad = b64decode padded(aad b64)
  ciphertext = b64decode padded(ciphertext b64)
  aesgcm = AESGCM(key)
  plaintext = aesgcm.decrypt(nonce, ciphertext, aad)
  return plaintext.decode("utf-8")
key b64 = "put your key here"
aad b64 = "put your aad here"
nonce b64 = "put your nonce here"
ciphertext b64 = (
   "put the ciphertext here"
```

```
if __name__ == "__main__":
    try:
        plain = decrypt_homework(ciphertext_b64, key_b64, nonce_b64,
aad_b64)
        print(" Successfully Decrypted: \n")
        print(plain)
    except Exception as e:
        print(" Failed: ", repr(e))
```