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Practical.no - 6
Title - Generate Digital Signature and verify it using DSA / RSA / ECC.
from Crypto.PublicKey import DSA
from Crypto.Signature import DSS
from Crypto. Hash import SHA256
#Create a new DSA key
key = DSA.generate(2048)
f = open("public_key.pem","wb")
f.write(key.publickey().export key())
f.close()
#Sign a message
message = b"Hello"
hash obj = SHA256.new(message)
signer = DSS.new(key, 'fips-186-3')
signature = signer.sign(hash obj)
#Load the public key
f = open("public key.pem","rb")
hash obj = SHA256.new(message)
pub key = DSA.import key(f.read())
verifier = DSS.new(pub_key,'fips-186-3')
#Verify the authenticity of the message
try:
    verifier.verify(hash obj, signature)
    print("The message is Authentic.")
except ValueError:
    print("The message is not Authentic.")
Output:
The message is Authentic.
```