

readme

倪浚桐

202022161224

Lab1

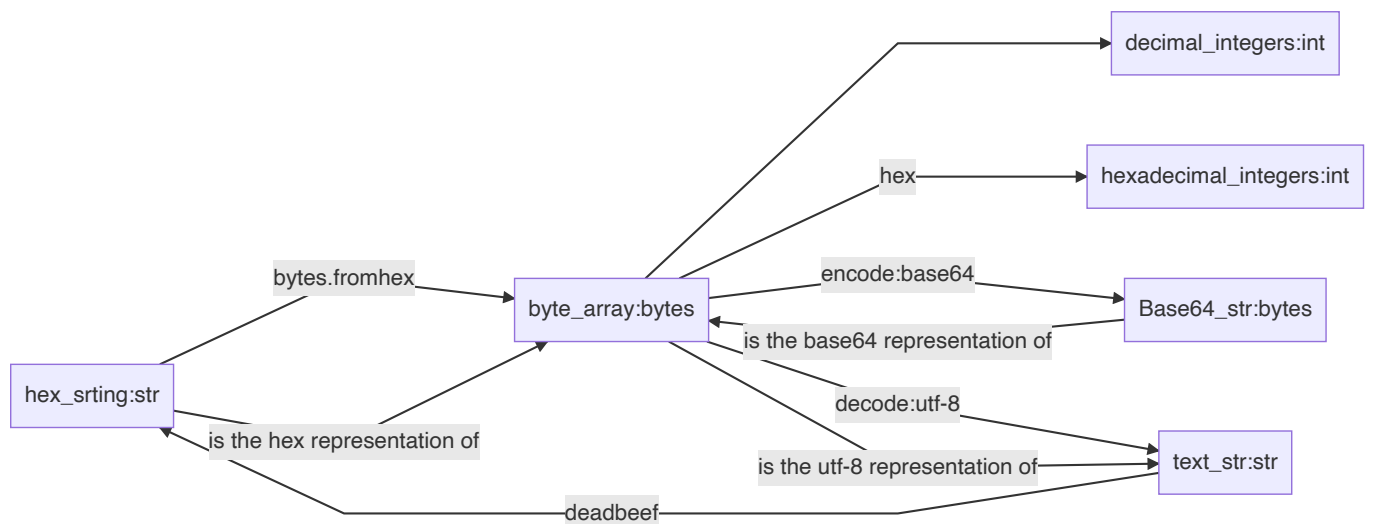
macOS Big Sur 11.5.2(20G95)

Pycharm 11.0.11 x86-64

Python 3.9.5

```
终端:  main.py ×  main.py ×  main.py ×  main.py ×  +
/Users/lingfeng/Desktop/python/202022161224-倪浚桐-Lab1/main.py
(venv) lingfeng@lingfengdeMacBook-Pro 202022161224-倪浚桐-Lab1 % /Users/lingfeng/D
esktop/python/202022161224-倪浚桐-Lab1/main.py
Please input a hex string:deadbeef
byte_array: b'\xde\xad\xbe\xef'
decimal integers: 222 173 190 239
hexadecimal integers: 0xde 0xad 0xbe 0xef
Base64_str: b'3q2+7w=='
Please input a hex_string:6465616462656566
text_str: deadbeef
(venv) lingfeng@lingfengdeMacBook-Pro 202022161224-倪浚桐-Lab1 %
```

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```
1 byte_array = bytes.fromhex(hex_string)
```

```
1 def bytes_to_dec(in_bytes: bytes) -> None:
2     print("decimal integers:", end=' ')
3     for b in in_bytes:
4         print(b, end=' ')
5     print()
```

```
1 def bytes_to_hex(in_bytes: bytes) -> None:
2     print("hexadecimal integers:", end=' ')
3     for b in in_bytes:
4         print(hex(b), end=' ')
5     print()
```

```
1 def encode_base64(in_bytes: bytes) -> None:
2     print("Base64_str:", end=' ')
3     print(base64.b64encode(in_bytes))
```

```
1 def decode_utf8(in_bytes: bytes) -> str:
2     print("text_str:", end=' ')
3     return in_bytes.decode('utf-8')
```