import hashlib

def sha256(text):

"""Generates the SHA-256 hash of the given text."""

hash\_object = hashlib.sha256(text.encode()) # Encode text as bytes

digest = hash\_object.hexdigest() # Get hexadecimal hash value

return digest

if \_\_name\_\_ == "\_\_main\_\_":

text\_to\_hash = input("Enter the text to hash: ")

hash\_value = sha256(text\_to\_hash)

print("SHA-256 hash:", hash\_value)