9/21/23, 1:24 PM Diatomic

Diatomic Encoding

```
In [2]: import base64
# Function to encode data using base64
def base64_encode(data):
    encoded_bytes = base64.b64encode(data.encode())
    encoded_data = encoded_bytes.decode()
    return encoded_data
# Function to decode data using base64
def base64 decode(encoded data):
    decoded_bytes = base64.b64decode(encoded_data)
    decoded_data = decoded_bytes.decode()
    return decoded_data
# Reading input from input.txt
try:
    with open("input.txt", "r") as file:
        data = file.read()
except FileNotFoundError:
    print("input.txt not found. Please create the file and place your input data in
    exit(1)
# Encoding and writing to encoded_output.txt
# with open("input.txt", "r") as file:
      data = file.read()
encoded = base64_encode(data)
with open("encoded.txt", "w") as encoded_file:
    encoded_file.write(encoded)
print("Encoded data written to encoded_output.txt")
```

Encoded data written to encoded_output.txt

input.txt: BABAMA

encoded.txt: QkFCQU1B