q3-2347155

August 9, 2023

```python
import Q3_2347155 as qq

product_name = input("Enter the product name (1 to 5 characters):  ")

try:
    encoded_qr_str = qq.EncodeQR(product_name)
    print("Encoded QR list:", encoded_qr_str)
except ValueError as ve:
    print(ve)
```

```python
# qr_module.py

def EncodeQR(product_name):
    if len(product_name) < 1 or len(product_name) > 5:
        raise ValueError("Product name must be between 1 and 5 characters long ")

    encoded_qr_str = ""

    encode_char = lambda char: format(ord(char), '08b')   # Lambda to encode a
    character

    for idx, char in enumerate(product_name):
        if idx == 0:
            padding = '10000000'
        elif idx == 1:
            padding = '01000000'
        elif idx == 2:
            padding = '00100000'
        elif idx == 3:
            padding = '00010000'
        elif idx == 4:
            padding = '00001000'
        else:
            padding = '00000100'

        encoded_char = padding + encode_char(char)
        encoded_qr_str += encoded_char
```

```
    return encoded_qr_str
```

```
Enter the product name (1 to 5 characters): Hi
Encoded QR list: 1000000001001000100000001101001
PS C:\Users\Jains\Desktop\Shrey\CHRIST\sem 1\python\Class Work>
```