

```
def EncodeQR(product_name):
    print(f"called for {product_name}")
    if (
        len(product_name) < 1
        or len(product_name) > 5
        or not any(c.isalpha() for c in product_name)
    ):
        return None
    # Define a lambda function to encode a character to binary
    encode_char = lambda char: format(ord(char), "08b")
    # Encode each character in the product name
    encoded_chars = [encode_char(char) for char in product_name]

    for i in range(len(encoded_chars)):
        padding = list("").zfill(7)
        padding.insert(i, "1")
        encoded_chars[i] = "".join(padding) + encoded_chars[i]

    # Join the encoded characters and return as a list
    return ["".join(encoded_chars)]
```