lab01

August 22, 2024

```
[]: def encode(string):
         nested_list = []
         encoded_dict = {
             'A': [1,0,0,0],
             'C': [0,1,0,0],
             'G': [0,0,1,0],
             'T': [0,0,0,1]
         }
         for char in string:
             if char.upper() not in encoded_dict:
                 nested_list.append([0,0,0,0])
             else:
                 nested_list.append(encoded_dict[char.upper()])
         return nested_list
[]: print(encode('AGGTGCGX'))
     print(encode('ACNCTGA'))
     print(encode('TGCAAAG'))
     print(encode('AASECVFF'))
    [[1, 0, 0, 0], [0, 0, 1, 0], [0, 0, 1, 0], [0, 0, 0, 1], [0, 0, 1, 0], [0, 1, 0, 0, 0]]
    0], [0, 0, 1, 0], [0, 0, 0, 0]]
    [[1, 0, 0, 0], [0, 1, 0, 0], [0, 0, 0, 0], [0, 1, 0, 0], [0, 0, 0, 1], [0, 0, 1, 0, 0]
    0], [1, 0, 0, 0]]
    [[0, 0, 0, 1], [0, 0, 1, 0], [0, 1, 0, 0], [1, 0, 0, 0], [1, 0, 0, 0], [1, 0, 0, 0]
    0], [0, 0, 1, 0]]
    [[1, 0, 0, 0], [1, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 1, 0, 0], [0, 0, 0, 0]
    0], [0, 0, 0, 0], [0, 0, 0, 0]]
```