

```
@author: bLraj
Name    : Rajkumar B L
Reg.no  : 2047120
Course  : MCS173 - LAB03
MSC.Cs - 1st Year
""""
```

```
def reversecomplement_DNA
```

```
if len      1
    for      in      1
        if      in
            else
                "Not Valid DNA String!"
            break
    else
        "Not Valid DNA String!"
```

```
def check_if_pronic
```

#%%

```

'A' '._.' 'B' '._...'
'C' '._..' 'D' '._...' 'E' '._.'
'F' '._...' 'G' '._..' 'H' '._....'
'I' '._.' 'J' '._...' 'K' '._..'
'L' '._...' 'M' '._..' 'N' '._.'
'O' '._...' 'P' '._...' 'Q' '._...'
'R' '._..' 'S' '._...' 'T' '._.'
'U' '._...' 'V' '._...' 'W' '._...'
'X' '._...' 'Y' '._...' 'Z' '._...'
'1' '._...' '2' '._...' '3' '._...'
'4' '._...' '5' '._...' '6' '._...'
'7' '._...' '8' '._...' '9' '._...'
'0' '._...' ' ' '._...'
'-' '._...' '@' '._...' '/'

```

1

```

def encode
    """
    if len(s) == 1:
        for char in s:
            if char in '01':
                # encode 0 as 00 and 1 as 01
                encoded += char + '0'
            else:
                encoded += "Not Valid Input String!"
                break
    else:
        encoded += "Not Valid Input String!"

    return encoded

def decode
    """
    if len(s) == 1:
        for char in s:
            if char in '01':
                # decode 00 as 0 and 01 as 1
                decoded += char + '0'
            else:
                decoded += "Not Valid Input String!"
                break
    else:
        decoded += "Not Valid Input String!"

    return decoded

# %%

```