



File Edit Selection View Go ... Computer Network

EXPLORER

- COMPUTER NETWORK
 - Assign1.cpp
 - Assign2.cpp
 - Assign3.cpp

Assign1.cpp > generateHammingCode(string)

```
16 string generateHammingCode(string data) {
30     int j = 0;
31     for (int i = 0; i < encoded_data.length(); i++) {
32         if ((i + 1) & (i + 1) == 0) {
33             encoded_data[i] = '0';
34         } else {
35             encoded_data[i] = data[j++];
36         }
37     }
38
39     for (int i = 0; i < r; i++) {
40         string parity_bits;
41
42         for (int j = 0; j < encoded_data.length(); j++) {
43             if ((j + 1) & (i + 1) != 0 && (j + 1) & (encoded_data.length() - i) != 0) {
44                 parity_bits += encoded_data[j];
45             }
46         }
47         encoded_data[i] = (char)(calculateParity(parity_bits) + '0');
48     }
49     return encoded_data;
50 }
51
52 int main() {
53     string data word;
```

Ln 19, Col 3 Spaces: 2 UTF-8 CRLF {} C++ Win32

3:39 PM 3/15/2024

