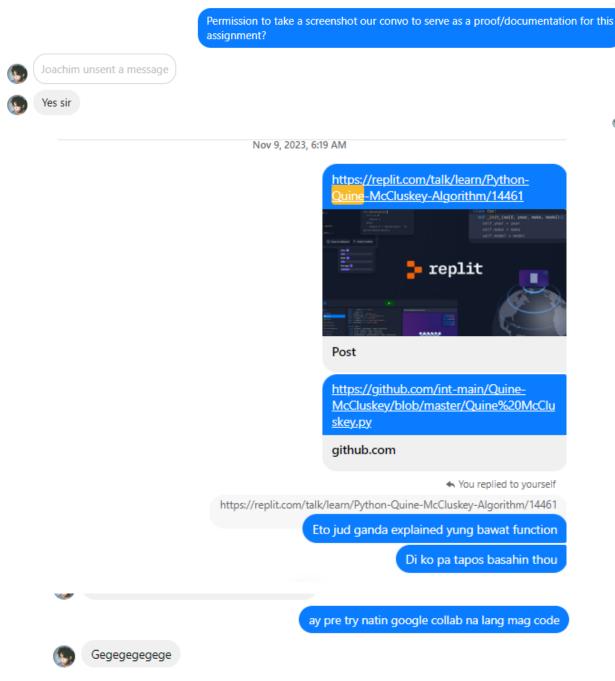
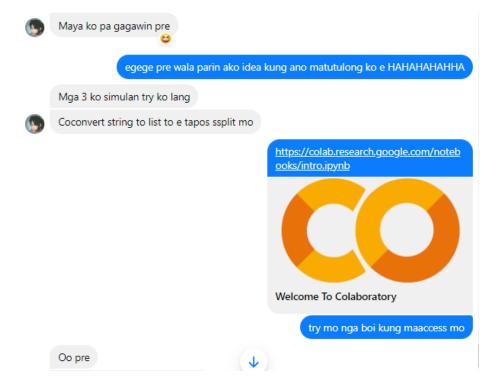
Gonzales, Joachim Lowe Z.

Tuatis, Juan Francis C.

### **Quine-McCluskey Coding Assignment Documentations**

Conversation with Mr. Gozales regarding the code:





Nov 26, 2023, 2:07 PM

Ganito pala magiging flow non pre

- -Bali may dalawang input tayo Minterms and variables both strings.
- -Coconvert natin strings to list
- Convert to binary
- -Then gagamit tayo ng function which is yung number of 1s mag gogroup

Saang part ka na?

Feeling ko pre okay na yung inputs

oo pre

ano na next nagagawin?

ano na pre checking kung may duplicate input

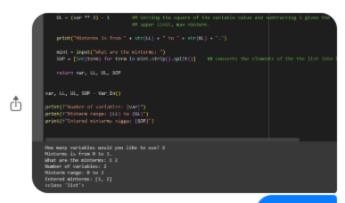
boi di mo ginawang list yung sa first part?

yung sop ba?

oo pre magiging list yon talaga dapat ang iniisip ko paano coconvert to binary



AHHAAHHAHAHA



list na ah?

ayyyyyyyyyyy



АНАНАНАНА

eto pinaka bagong ver pre

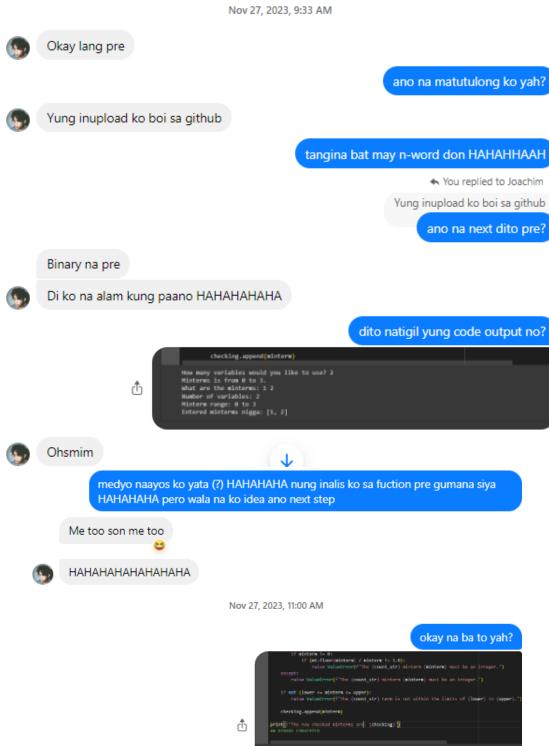


quine\_mccluskey\_coding\_assignment.py
1.31 KB

try natin sa github mag collab gawa ka github pre github tayo mag lapag



lagay mo username mo dito para maadd kita



andon sa hub yung bagong code pre

sa file ko

Oo ya
Ginawa mong reference code ko?

You replied to Joachim

Ginawa mong reference code ko?

medyo HAHAHA tapos pinacorrect ko sa chat gpt

### HAHAHAHAHAHAHA gesi gesi

Binary naman oyats

bali ang ginawa ko nilabas ko lang talaga siya sa funciton HAHAHAHA

You replied to Joachim

Binary naman oyats

ggg

♠ Joachim replied to you

999

What gamit na lang tayong bin function

Iterations na kasi yung grouping don



Tapos gagamit na ng pandas df

Binary Encoded Minterms:
Minterm 0: 00000
Minterm 1: 00001
Minterm 2: 00010
Minterm 4: 00100
Minterm 7: 00111
Minterm 10: 01010
Minterm 15: 01111
Minterm 18: 10010
Minterm 22: 10110

Pwede naman

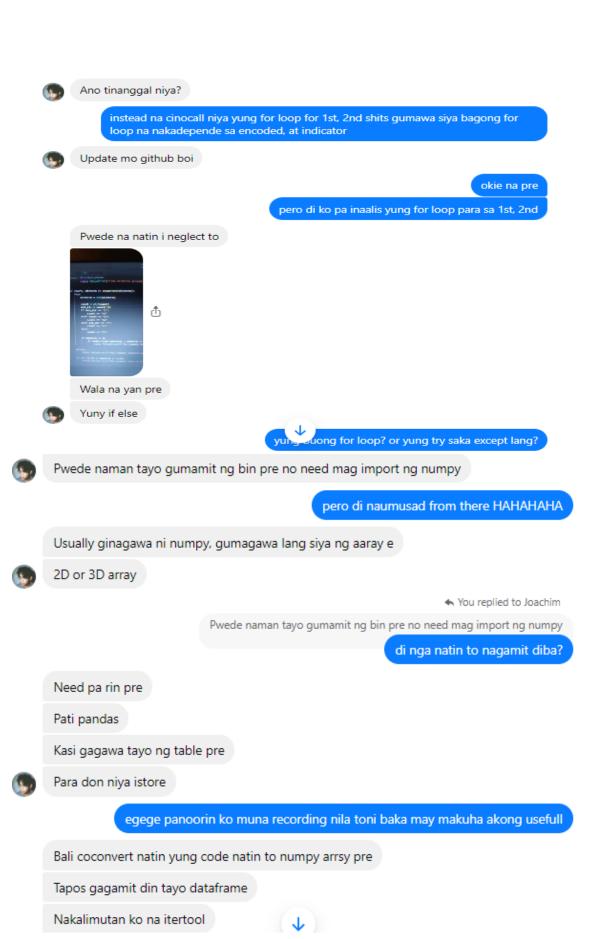
Oo yan mas okay

5

Ano ginawa mo boi?

đ

print("\nOinary Encoded Minterms:")
for binary\_representation, original\_minterm in zip(encoded\_result, indicator\_result):
 print(f"Minterm {original\_minterm}: {binary\_representation}")





check mo inupload kong bago

okie

Not final

yung zfill di ko alam kapag malaki na integer e



try mo mag blackbox ai mas more on code problems siya

```
| 1886 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1877 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 |
```

```
## BINARY CONVERTER
def binary_encoder(minterms):
  encoded = []
  indicator = []
  for minterm in minterms:
    binary = bin(minterm)[2:] # Convert to binary without the '0b' prefix
    encoded.append(binary.zfill(var))
    indicator.append(minterm)
  # Create a list of dictionaries
  rows = [{'Minterm': minterm, 'Binary Encoded': binary} for minterm, binary in
zip(indicator, encoded)]
  # Create a pandas dataframe
  df = pd.DataFrame(rows)
  return df
df = binary_encoder(minterms)
print("\nBinary Encoded Minterms:")
print(df)
```

kuha ko na, dedepend lang siya kay var

inupdate ko code



para maganda yung pag convert



```
#Prime implicants
def prime_implicants(str1 , str2):
  differences = sum(c1 != c2 for c1, c2 in zip(str1, str2))
  return differences == 1
# Replace differing bits with a dash
def replace_with_dash(str1, str2):
  return ".join(c1 if c1 == c2 else '-' for c1, c2 in zip(str1, str2))
paired_minterms = []
paired_binary = []
pairing = {}
for i in range(len(grouped_binary)):
  for j in range(i + 1 , len(grouped_binary)):
    if prime_implicants(grouped_binary[i][2], grouped_binary[j][2]):
       change = replace_with_dash(grouped_binary[i][2], grouped_binary[j][2])
       paired_binary.append(change)
       paired_minterms.append((grouped_binary[i][0], grouped_binary[j][0]))
       pairing = dict(zip(paired_minterms, paired_binary))
df = pd.DataFrame(list(pairing.items()), columns=['Minterms', 'Binary
Representation'])
print(df)
```

```
Minterms Binary Representation
0 (1, 5) 0-01
1 (4, 5) 010-
2 (4, 12) -100
3 (5, 13) -101
4 (8, 12) 1-00
5 (12, 13) 110-
6 (13, 15) 11-1
```



Nov 28, 2023, 2:06 AM

Nag update ako ng notfinal.py sa github pre

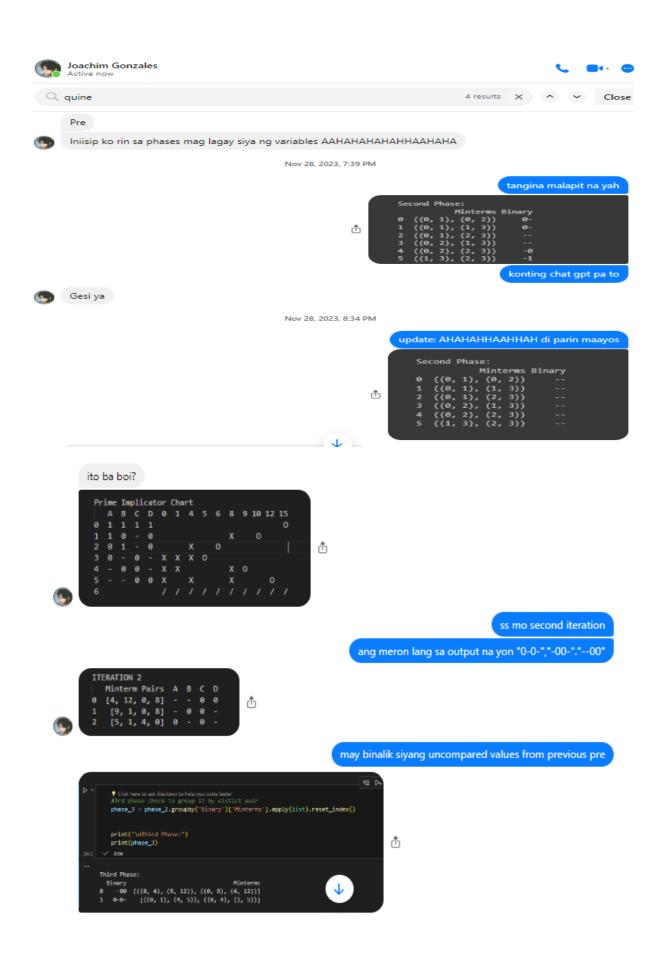


Nov 28, 2023, 5:49 AM

Ang next step ay? Compare ulit no?

nageerror pre?

list out of range?

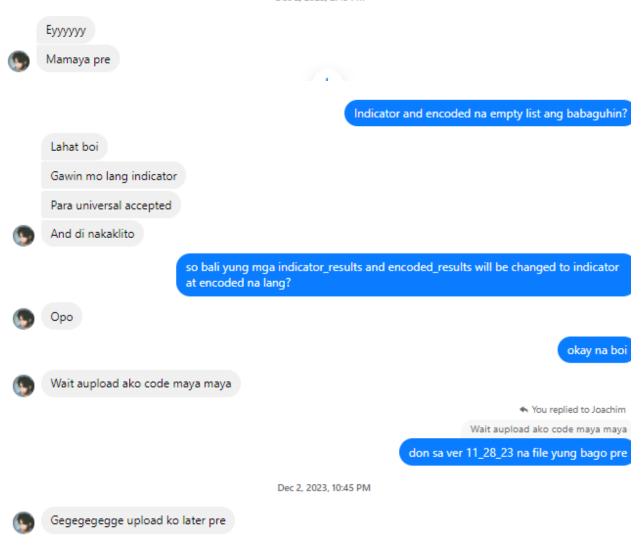


https://github.com/int-main/Quine-McCluskey/blob/master/Quine%20McCluskey.py

github.com

may nakita ko boi na pang final tab kaso di ko magets HAHAHAHA baka ikaw magets mo HAHAHAHAH

Dec 2, 2023, 2:45 PM



### Ya paupdate sa github

Here's what i want you to do sa part na ito

```
Divine implication

of principalisation (a, shelp)

difference = match to of on ch. of in shelp(), shell)

solve information (a)

button districts that with a loss
get explane and matched (a, ch/p)

were = _district at a shell (a)

of the matched (a) is a shell (a)

of the matched (a)

of the matched
```

## starting from that to dulo pre

ganito dapat mangyari, gawa ka ng function pre na sa loob si tabulated, minterms , at indicator

kasi pre maganda kasi gawin diyan yung A B C D pa rin mag rereflect



na mag rereplace with dashes

bali?

def replace(tabulated, minterms, indicator)?

Оро

May inupload me pre

not\_final

Gawa muna ako uts



# Github Collaboration Files Proof:

알 main ▼ 월 1 Branch ⓒ 0 Tags	Q Go to file <b>t</b> Add file •	<> Code →
(i) disaypoll Update QMA FINAL CODE!!!!!!!!!!!!.py	956957a · 14 hours ago	© 60 Commits
12_3_23_Ver.py	Rename quine_mccluskey_coding_assignment_11_28_23_ver	2 weeks ago
Final_na_to - Copy.py	Update Final_na_to - Copy.py	3 days ago
Final_na_to.py	Update Final_na_to.py	3 days ago
☐ Not final.ipynb	Add files via upload	3 weeks ago
QMA FINAL CODE!!!!!!!!!!.py	Update QMA FINAL CODE!!!!!!!!!!!.py	14 hours ago
Quine_McCluskey_Documentation.ipynb	Add files via upload	2 weeks ago
☐ README.md	Initial commit	3 weeks ago
not_final.py	Update not_final.py	2 weeks ago
notfinal.py	Update notfinal.py	2 weeks ago
quine_mccluskey_coding_assignment.py	Update quine_mccluskey_coding_assignment.py	3 weeks ago