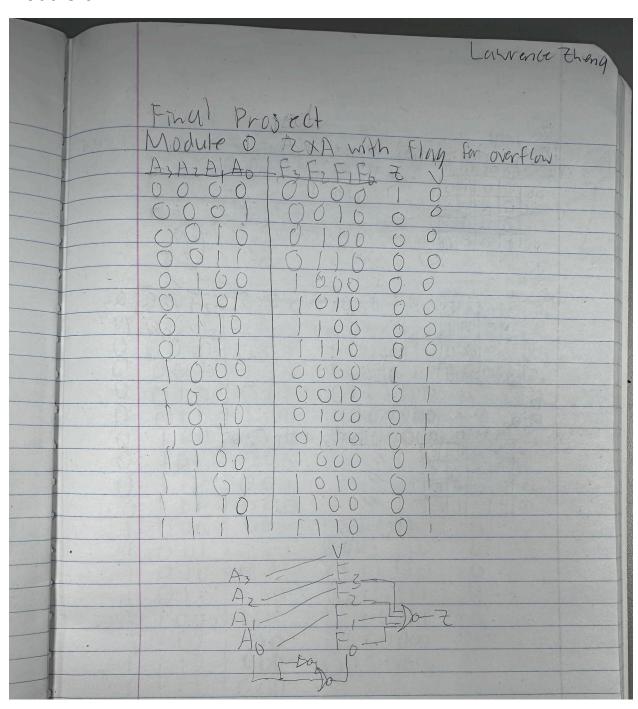
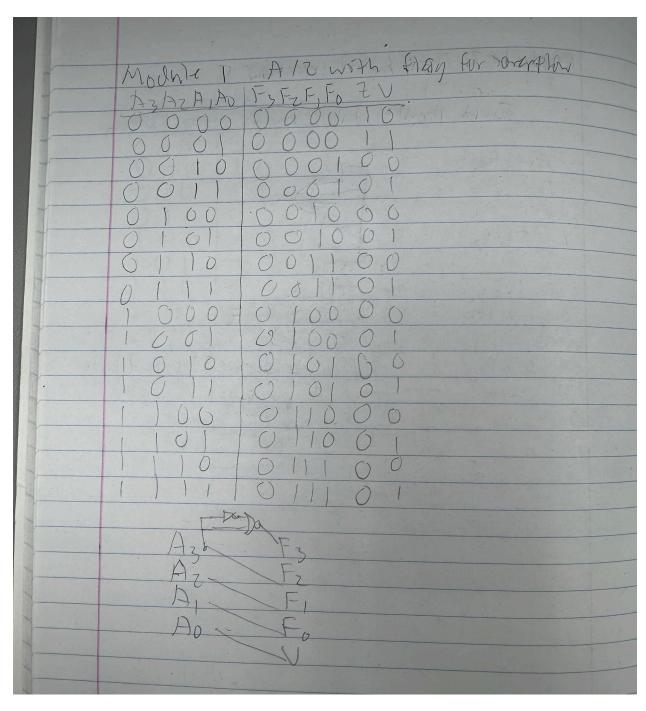
# Task 1:

### Module 0:

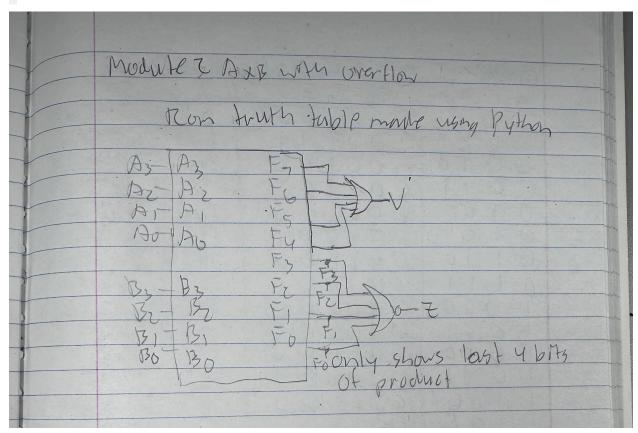


#### Module 1:

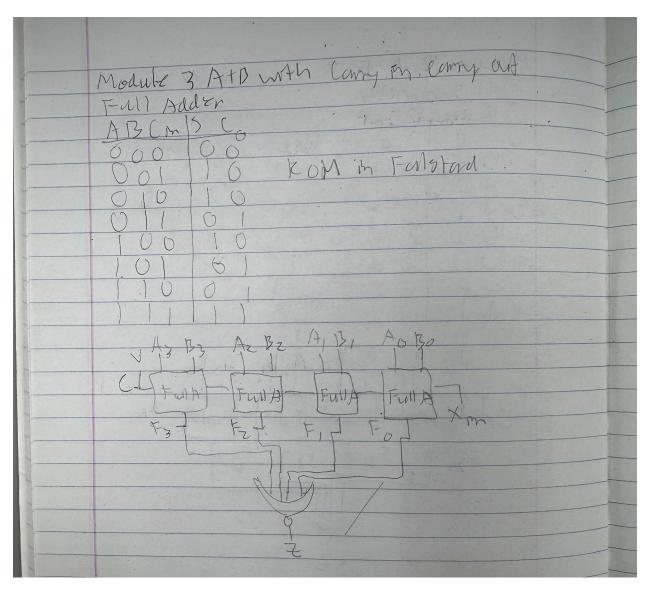


#### Module 2:

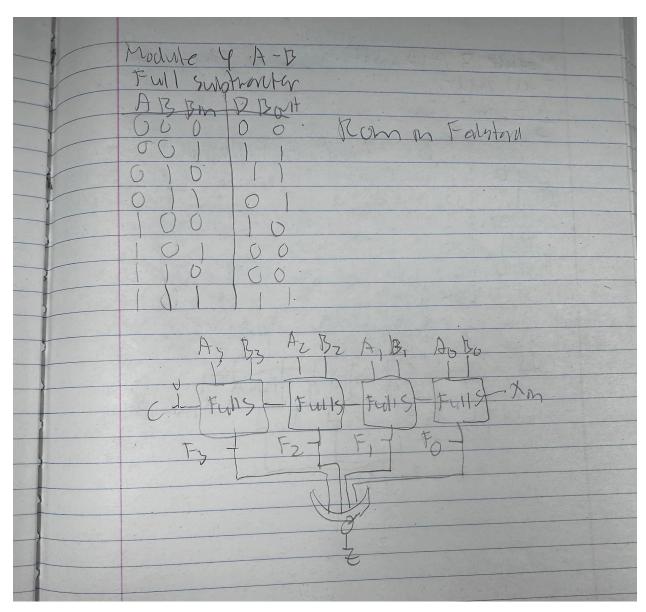
```
for i in range(16):
for j in range(16):
    print(f'{i:04b}{j:04b}={i*j:08b}')
```



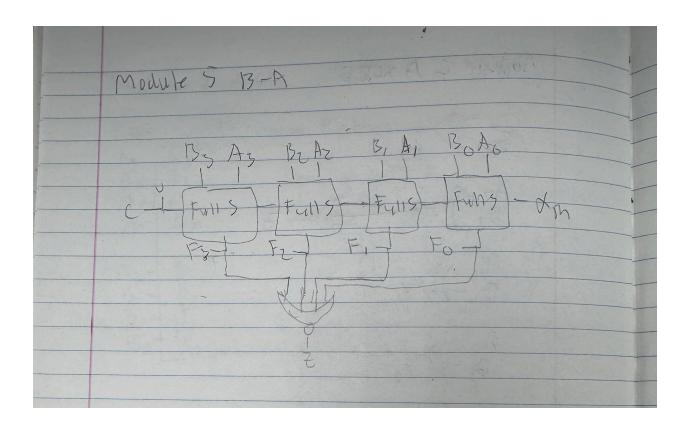
#### Module 3:



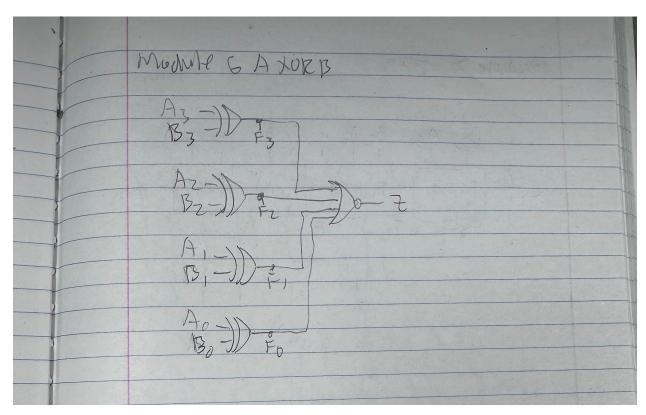
### Module 4:



### Module 5:

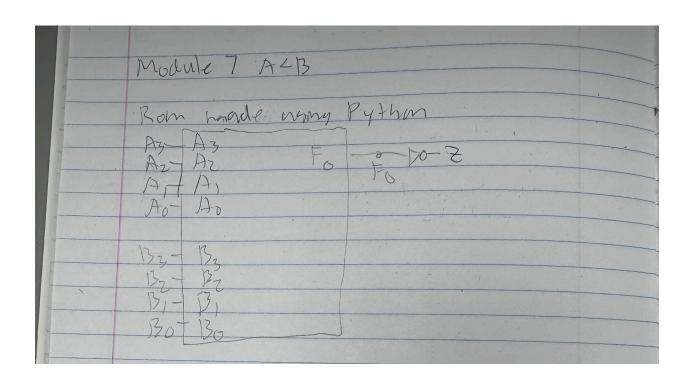


#### Module 6:



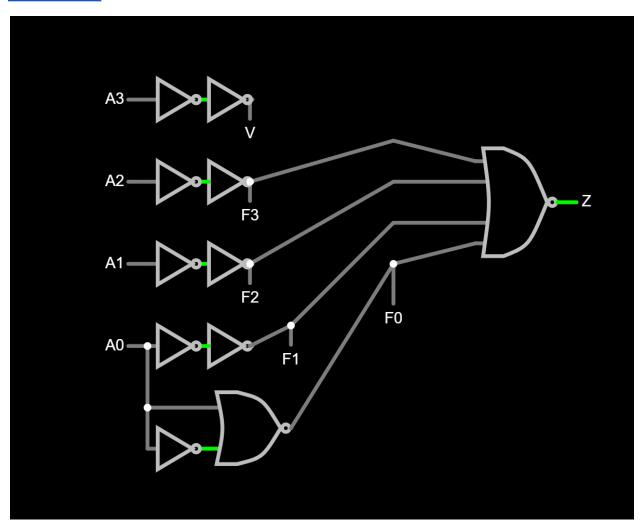
### Module 7:

```
for i in range(16):
for j in range(16):
    print(f'{i:04b}{j:04b}={i<j:b}')</pre>
```

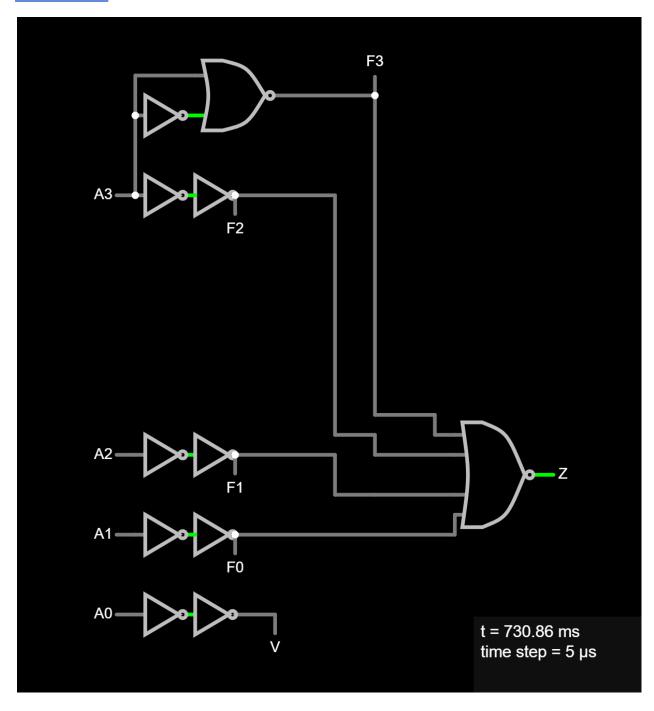


# Task 2:

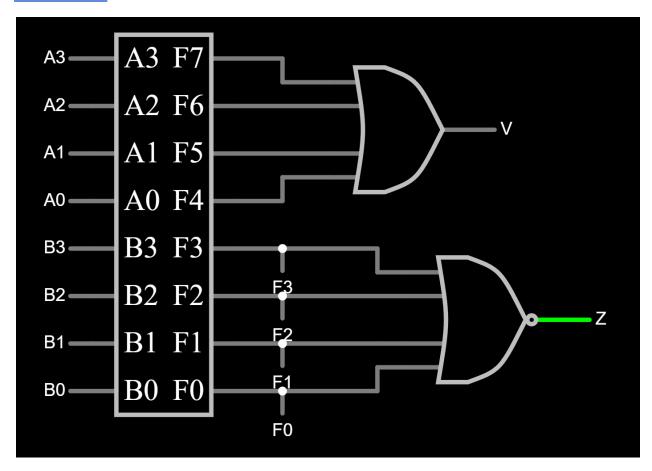
# Module 0:



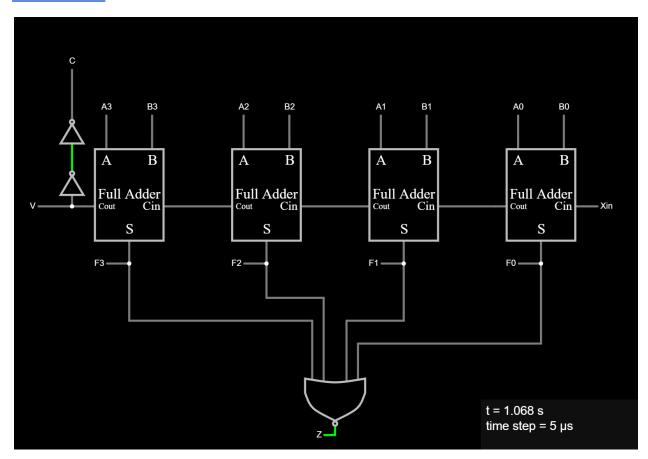
# Module 1:



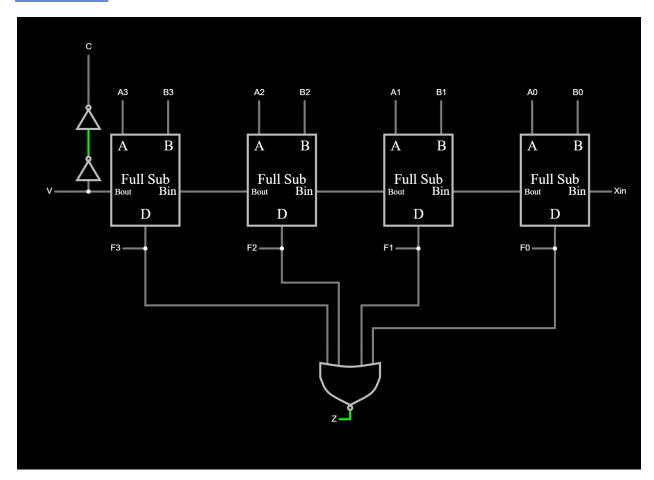
### Module 2:



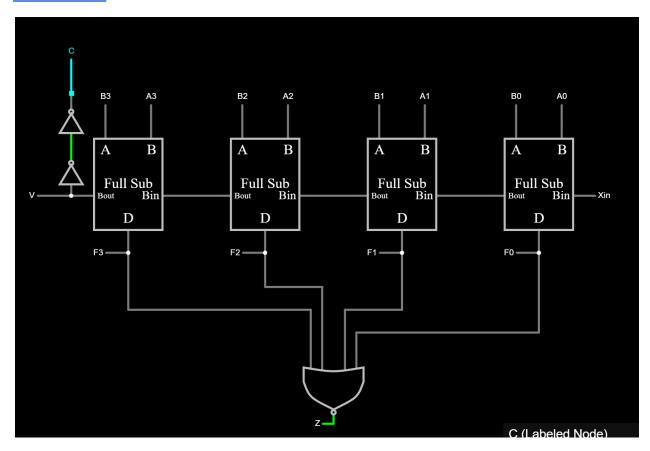
### Module 3:



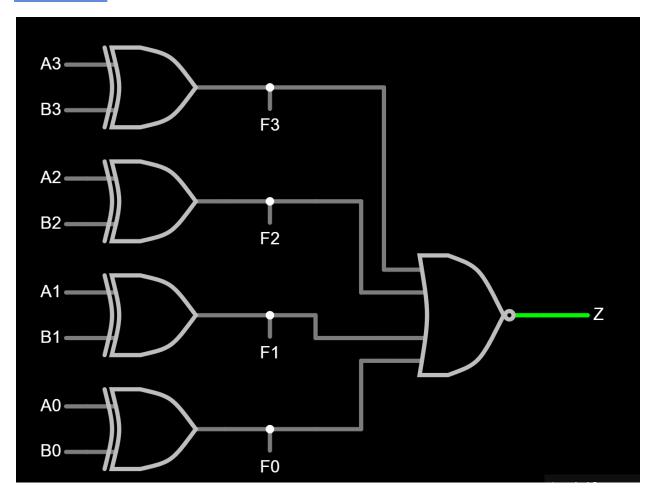
## Module 4:



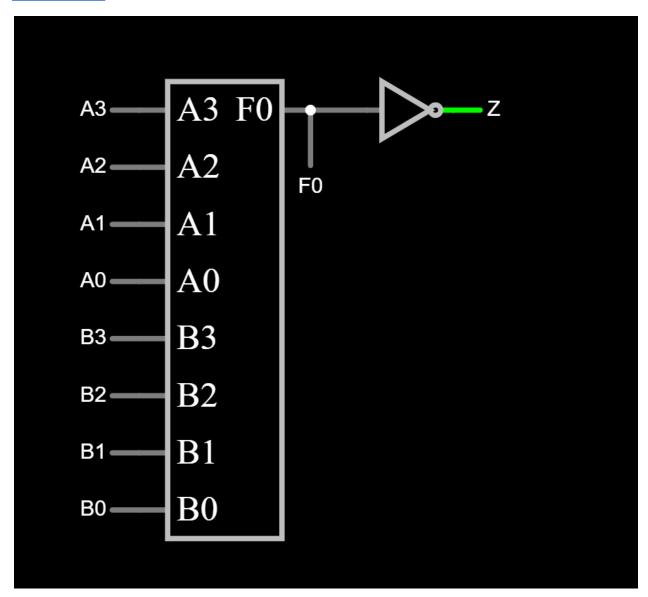
### Module 5:



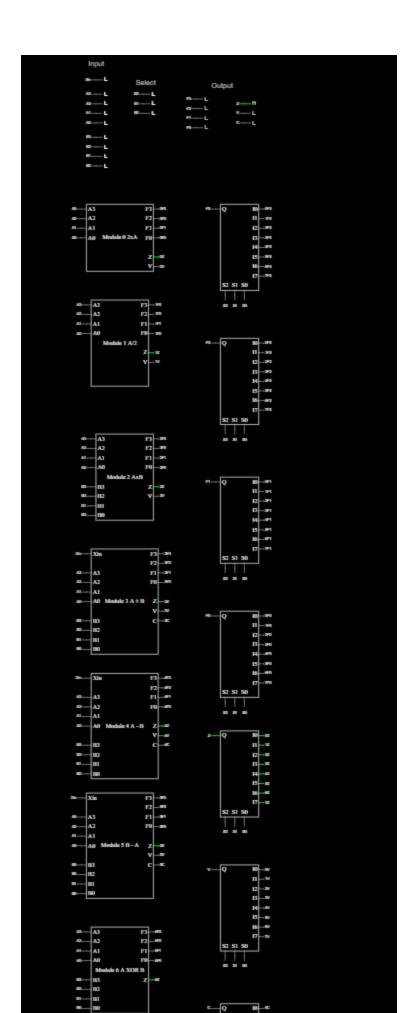
# Module 6:



### Module 7:



Combined circuit attached in ALU.txt



# Task 3:

Attached EDA link in case file doesn't convert properly