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PART A:

Public Swimming Pool System:

Task1:

```
PART A.py > ...
1
2   #Task1
3   print("Swimming Pool membership System")
```

*Figure 1 PART A 1*

In the #task1

code displays a welcome message,

```
#task2
User = {
    "Name": "Rae An" , "Age": 20, "Membership": "Standart",
}

name = (input("Enter Name:"))
age = int(input("Enter Age:"))
```

*Figure 2 PART A 2*

Task 2 is where I store the data and handle input and output

```
#check age member ship
if age <12:{
    print("Not eligible for membership"),
    exit()#exit if user under 10
}
elif age <=60:{
    print("standart Membership granted"),#give standart Membership
}
elif age >60:
    print("senior membership is Granted")#old foks membership
```

*Figure 3 PART A 3*

In this part, I check their age. If user age is below 12, it will display not eligible and end the program. If age 12 to 60 will get standard and lastly above 60 will get senior membership

```
#how many session
sessionBooked = (input("how many session:"))
print("Sesstion Is booked", sessionBooked)
```

*Figure 4 PART A 4*

this last line of code will booked a session for how many.

PART B:

library_module.py × main.py

PART B > library_module.py > ...

```python
class Book:
    def __init__(self, title, author):
        self.title = title
        self.author = author

def display_info():
    print ("Title: {self.title}, Author: {self.author}")

```

*Figure 5 PART B 1*

library_module.py main.py

PART B > main.py > ...

```python
from library_module import book

books = {
    "Python 101": "Philip Robbins",
    "Data science": "Jannah Mohd"
}

#add new book from user input
title = input("Enter book title:")
author = input("Enter book author:")
books[title] = author

#save to file
with open("book.txt", "w") as f:
    for t, a in books.items():
        f.write(f"{t}:{a}\n")

#read File
with open("book.txt", "r") as file:
    lines = file.readline()

print("\nBook list from file:")
for line in lines:
    t, a = line.strip().split(":")
    b = books(t, a)
    b.display_info()

```

*Figure 6PART B 2*

Above code are buggy

Task1:

first error is how in the main.py, from library_module import book  is wrong

the corrected version is" import library_module

Second error is books[tittle]= author. This is wrong because tittle is not author. So the corrected code is

books[title] = tittle

books[author] = author

The last error is on the library module.

here are the corrected one

```
6   class Display_info:
7       def display_info():
8           print("Title: {self.title}, Author: {self.author}")
9
```

*Figure 7PART B 3*

Task 2:

why it doesn't work is because fail to import from other module and error on the code(books[tittle]=author.

Task 4:

library_module.py × main.py

PART B > library_module.py > ...

```python
class Books:
    def __init__(self, title, author):
        self.title = title
        self.author = author

class Display_info:
    def display_info():
        print("Title: {self.title}, Author: {self.author}")
```

*Figure 8 PART B 4*

library_module.py main.py ●

PART B > main.py > ...

```python
import library_module

books = {
    "Python 101": "Philip Robbins",
    "Data science": "Jannah Mohd"
}

#add new book from user input
title = input("Enter book title:")
author = input("Enter book author:")
books[title] = title
books[author]= author

#save to file
with open("book.txt", "w") as f:
    for t, a in books.items():
        f.write(f"{t}:{a}\n")

#read File
with open("book.txt", "r") as file:
    lines = file.readline()


print("\nBook list from file:")
for line in lines:
    t, a = line.strip().split(":")
    b = books(t, a)
    b.Display_info()
```

*Figure 9PART B 5*