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Contents

PART A	4
PART B:	6

Figure 1 PART A 1	4
Figure 2 PART A 2.....	4
Figure 3 PART A 3.....	4
Figure 4 PART A 4.....	5
Figure 5 PART B 1	6
Figure 6PART B 2	6
Figure 7PART B 3	7
Figure 8 PART B 4.....	8
Figure 9PART B 5	8
Figure 10 OUTPUT	9

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

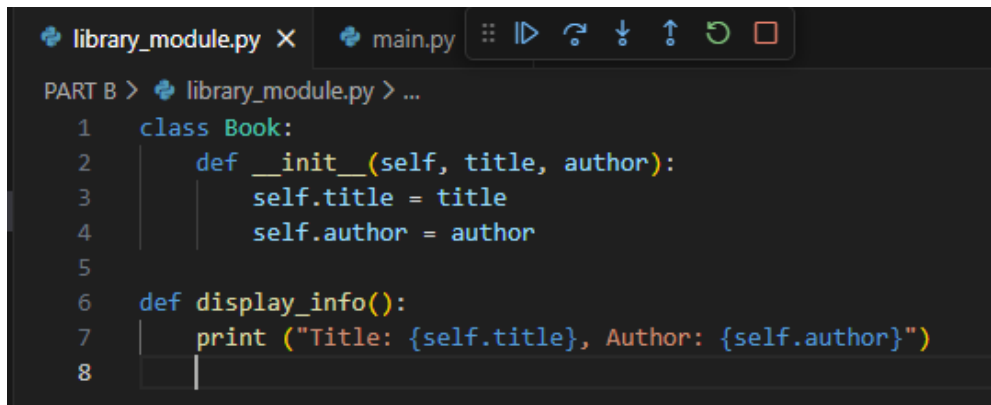
In this part, I check their age. If user age is below 12, it will display not eligible and end the program. If age 12 to 60 will get standard and lastly above 60 will get senior membership

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

Figure 4 PART A 4

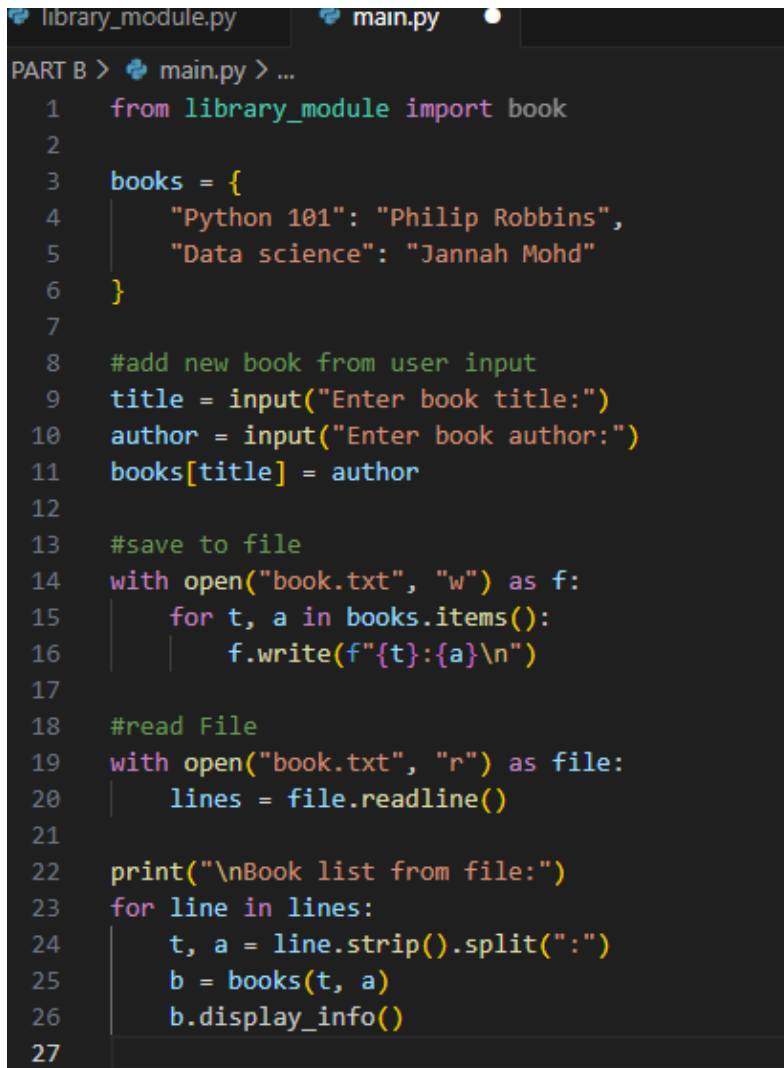
this last line of code will booked a session for how many.

PART B:



```
library_module.py X main.py
PART B > library_module.py > ...
1 class Book:
2     def __init__(self, title, author):
3         self.title = title
4         self.author = author
5
6     def display_info():
7         print ("Title: {self.title}, Author: {self.author}")
8
```

Figure 5 PART B 1



```
library_module.py main.py
PART B > main.py > ...
1 from library_module import book
2
3 books = {
4     "Python 101": "Philip Robbins",
5     "Data science": "Jannah Mohd"
6 }
7
8 #add new book from user input
9 title = input("Enter book title:")
10 author = input("Enter book author:")
11 books[title] = author
12
13 #save to file
14 with open("book.txt", "w") as f:
15     for t, a in books.items():
16         f.write(f"{t}:{a}\n")
17
18 #read File
19 with open("book.txt", "r") as file:
20     lines = file.readline()
21
22 print("\nBook list from file:")
23 for line in lines:
24     t, a = line.strip().split(":")
25     b = books(t, a)
26     b.display_info()
27
```

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] = title
```

```
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:

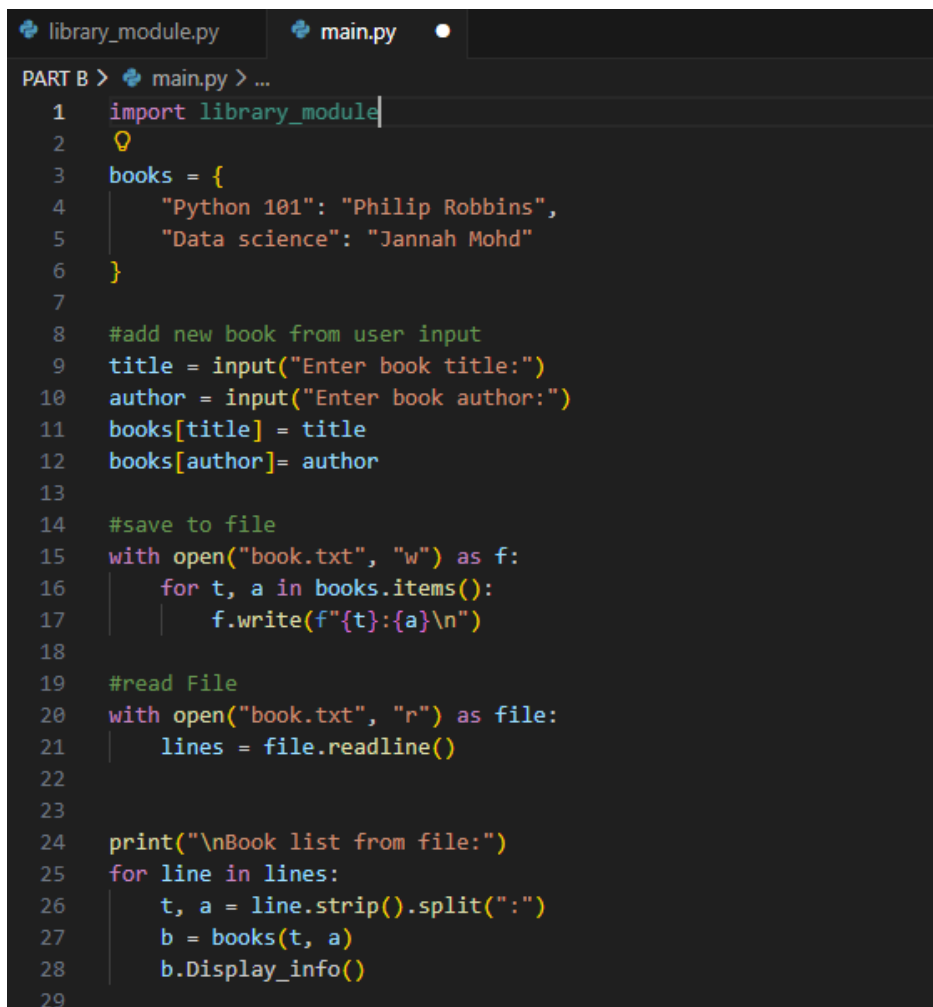
why it doesn't work is because fail to import from other module and error on the code(books[tittle]=author.

Task 4:



```
library_module.py X main.py
PART B > library_module.py > ...
1 class Books:
2     def __init__(self, title, author):
3         self.title = title
4         self.author = author
5
6 class Display_info:
7     def display_info():
8         print("Title: {self.title}, Author: {self.author}")
9
```

Figure 8 PART B 4



```
library_module.py main.py
PART B > main.py > ...
1 import library_module
2
3 books = {
4     "Python 101": "Philip Robbins",
5     "Data science": "Jannah Mohd"
6 }
7
8 #add new book from user input
9 title = input("Enter book title:")
10 author = input("Enter book author:")
11 books[title] = title
12 books[author] = author
13
14 #save to file
15 with open("book.txt", "w") as f:
16     for t, a in books.items():
17         f.write(f"{t}:{a}\n")
18
19 #read File
20 with open("book.txt", "r") as file:
21     lines = file.readline()
22
23
24 print("\nBook list from file:")
25 for line in lines:
26     t, a = line.strip().split(":")
27     b = books(t, a)
28     b.Display_info()
29
```

Figure 9 PART B 5

OUTPUT:

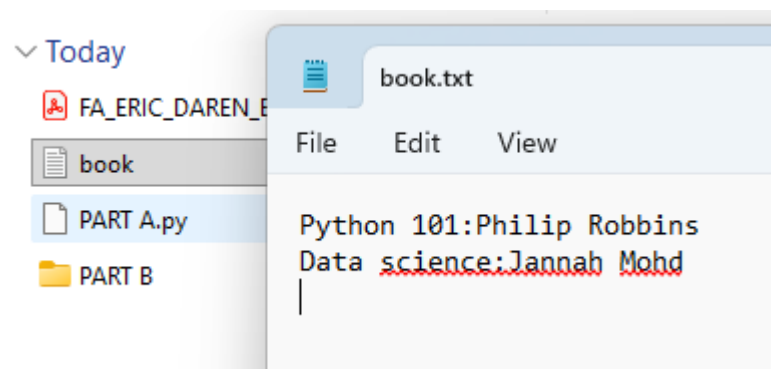


Figure 10 OUTPUT