

Nama: Rifki Fadilah

Kelas: R1

NIM: 210511011

PBO2 Praktikum 4

Penulis dan Buku composition

Script:

```
'''
Nama      : Rifki Fadilah
Kelas    : R1
NIM       : 210511011
'''

class Penulis:
    def __init__(self, name):
        self.name = name
        self.karya = Karya()
        print("Karya Rifki Fadilah")

class Judul:
    def __init__(self, name, sience):
        self.name = name
        self.sience = sience

class Karya:
    def __init__(self):
        self.items = []

    def add_item1(self, item):
        self.items.append(item)
        print("Judul: ", item.name, ", Tahun", item.sience)
    def add_item2(self, item):
        self.items.append(item)
        print("Judul: ", item.name, ", Tahun", item.sience)

    def remove_item(self, item):
        self.items.remove(item)

penulis = Penulis(" ")
```

```

judul1 = Judul("Habis winStreak terbitlah losstreak", 2022)
judul2 = Judul("Player Epik Abadi", 2023)

print("="*40)
penulis.karya.add_item1(judul1)
penulis.karya.add_item2(judul2)
penulis.karya.items
print(" ")

```

Hasil Running Program

```

File Edit Selection View Go Run Terminal Help
Penulis dan Buku.py - Visual Studio Code

EXPLORER
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Penulis dan Jurnal.py
Mahasiswa dan Kelompok KKM.py
Penulis dan Buku.py X
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composition 2.py...
Peneliti dan Jurnal...
Mahasiswa dan Ke...
Penulis dan Buku.p...
composition 3.py...
composition 4.py...
composition 5.py...
composition 6.py...
NO FOLDER OPENED
OUTLINE
TIMELINE

D:\PBO pertemuan 4> Penulis dan Buku.py > Karya
1
2 Nama : Rifki Fadilah
3 Kelas : R1
4 NIM : 210511011
5
6 class Penulis:
7     def __init__(self, name):
8         self.name = name
9         self.karya = Karya()
10        print("Karya Rifki Fadilah")
11
12 class Judul:
13     def __init__(self, name, sience):
14         self.name = name
15         self.sience = sience
16
17 class Karya:
18     def __init__(self):
19         self.items = []
20
21     def add_item1(self, item):
22         self.items.append(item)
23         print("Judul: ", item.name, ", Tahun", item.sience)
24     def add_item2(self, item):
25         self.items.append(item)
26         print("Judul: ", item.name, ", Tahun", item.sience)
27
28     def remove_item(self, item):
29         self.items.remove(item)
30
31
32 penulis = Penulis(" ")
33 judul1 = Judul("Habis winStreak terbitlah losstreak", 2022)
34 judul2 = Judul("Player Epik Abadi", 2023)
35
36 print("="*40)
37 penulis.karya.add_item1(judul1)
38 penulis.karya.add_item2(judul2)
39 print(penulis.karya.items)
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Windows PowerShell
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PS D:\PBO pertemuan 4> & "C:\Users\lavita\AppData\Local\Programs\Python\Python310\python.exe" "C:\Users\lavita\.vscode\extensions\ms-python.python-2023.4.1\pythonfiles\python\debugpy\adapter\..\..\debugpy\launcher" "56990" "--"
D:\PBO pertemuan 4> Penulis dan Buku.py
Karya Rifki Fadilah

Judul: Habis winStreak terbitlah losstreak , Tahun 2022
Judul: Player Epik Abadi , Tahun 2023

PS D:\PBO pertemuan 4>

```

Peneliti dan Jurnal composition

Script:

```
'''
Nama      : Rifki Fadilah
Kelas    : R1
NIM       : 210511011
'''

class Peneliti:
    def __init__(self, name):
        self.name = name
        self.judul = Judul()
        print("Nama:      Rifki Fadilah")

class Jurnal:
    def __init__(self, name):
        self.name = name

class Judul:
    def __init__(self):
        self.items = []

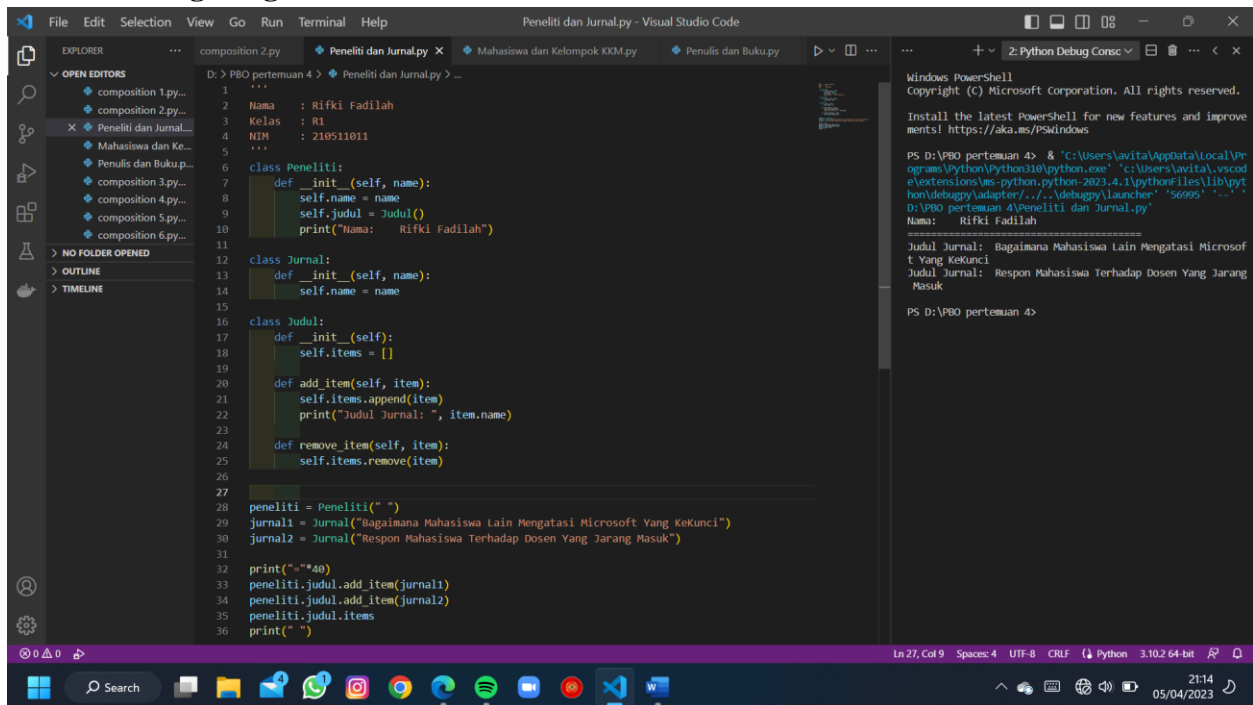
    def add_item(self, item):
        self.items.append(item)
        print("Judul Jurnal: ", item.name)

    def remove_item(self, item):
        self.items.remove(item)

peneliti = Peneliti(" ")
jurnal1 = Jurnal("Bagaimana Mahasiswa Lain Mengatasi Microsoft Yang Kekunci")
jurnal2 = Jurnal("Respon Mahasiswa Terhadap Dosen Yang Jarang Masuk")

print("="*40)
peneliti.judul.add_item(jurnal1)
peneliti.judul.add_item(jurnal2)
peneliti.judul.items
print(" ")
```

Hasil Running Program



The screenshot displays the Visual Studio Code interface with a Python file named 'Peneliti dan Jurnal.py' open. The code defines three classes: 'Peneliti', 'Jurnal', and 'Judul'. The 'Peneliti' class has an 'init' method that sets 'name' and 'judul' attributes. The 'Jurnal' class has an 'init' method that sets 'name' and 'judul' attributes. The 'Judul' class has an 'init' method that sets 'items' to an empty list, and methods 'add_item' and 'remove_item' to manage the list. The main execution block creates a 'Peneliti' object, a 'Jurnal' object, and a 'Judul' object, then adds items to the 'Judul' object and prints the results.

```
1
2 Nama : Rifki Fadillah
3 Kelas : R1
4 NIM : 210511011
5
6 class Peneliti:
7     def __init__(self, name):
8         self.name = name
9         self.judul = Judul()
10        print("Nama: Rifki Fadillah")
11
12 class Jurnal:
13     def __init__(self, name):
14         self.name = name
15
16 class Judul:
17     def __init__(self):
18         self.items = []
19
20     def add_item(self, item):
21         self.items.append(item)
22         print("Judul Jurnal: ", item.name)
23
24     def remove_item(self, item):
25         self.items.remove(item)
26
27
28 peneliti = Peneliti(" ")
29 jurnal1 = Jurnal("Bagaimana Mahasiswa Lain Mengatasi Microsoft Yang Kekunci")
30 jurnal2 = Jurnal("Respon Mahasiswa Terhadap Dosen Yang Jarang Masuk")
31
32 print("~"*40)
33 peneliti.judul.add_item(jurnal1)
34 peneliti.judul.add_item(jurnal2)
35 peneliti.judul.items
36 print(" ")
```

The terminal output shows the execution of the program, displaying the name 'Rifki Fadillah' and the list of journal items: 'Bagaimana Mahasiswa Lain Mengatasi Microsoft Yang Kekunci' and 'Respon Mahasiswa Terhadap Dosen Yang Jarang Masuk'.

```
Windows PowerShell
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PS D:\PBO pertemuan 4> & 'C:\Users\lavita\AppData\Local\Programs\Python\Python110\python.exe' 'C:\Users\lavita\.vscode\extensions\ms-python.python-2023.4.1\pythonfiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '56995' '-.-'
D:\PBO pertemuan 4>Peneliti dan Jurnal.py
Nama: Rifki Fadillah

Judul Jurnal: Bagaimana Mahasiswa Lain Mengatasi Microsoft Yang Kekunci
Judul Jurnal: Respon Mahasiswa Terhadap Dosen Yang Jarang Masuk

PS D:\PBO pertemuan 4>
```

Mahasiswa dan Kelompok KKM composition

Script:

```
'''
Nama      : Rifki Fadilah
Kelas    : R1
NIM       : 210511011
'''

class Mahasiswa:
    def __init__(self, name):
        self.name = name
        self.anggota = Anggota()
        print("Daftar Nama Mahasiswa Kelompok KKM")

class Kelompok_KKM:
    def __init__(self, name):
        self.name = name

class Anggota:
    def __init__(self):
        self.items = []

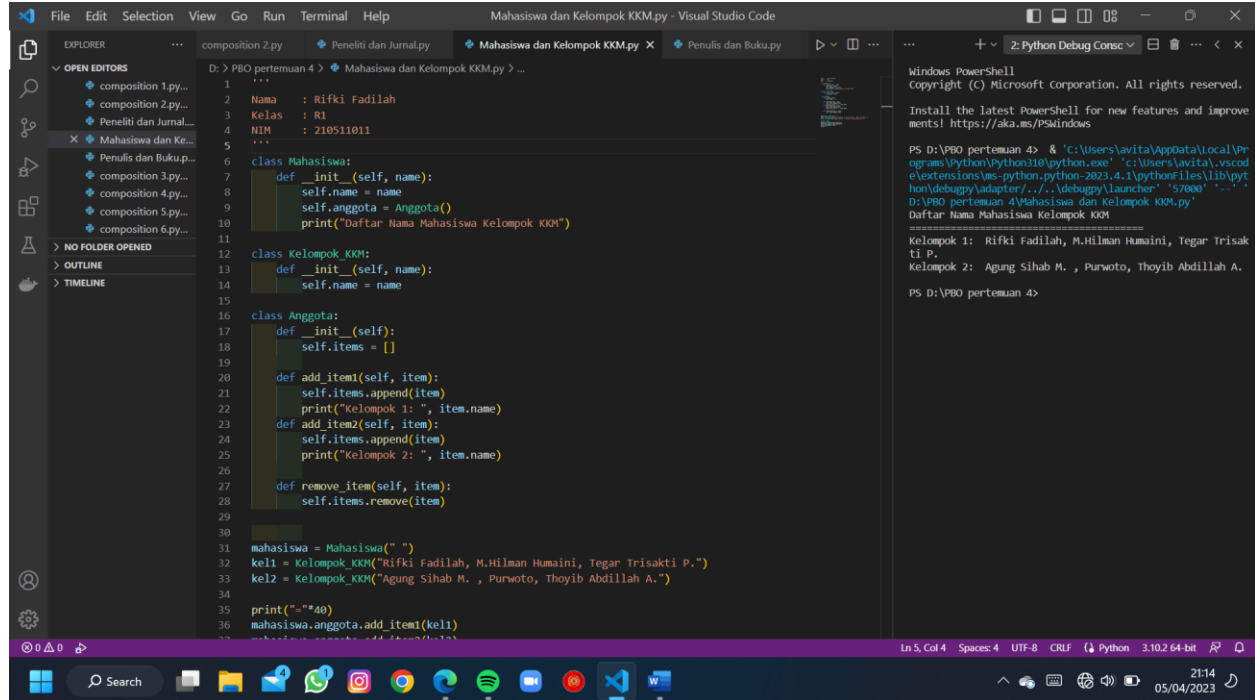
    def add_item1(self, item):
        self.items.append(item)
        print("Kelompok 1: ", item.name)
    def add_item2(self, item):
        self.items.append(item)
        print("Kelompok 2: ", item.name)

    def remove_item(self, item):
        self.items.remove(item)

mahasiswa = Mahasiswa(" ")
kel1 = Kelompok_KKM("Rifki Fadilah, M.Hilman Humaini, Tegar Trisakti P.")
kel2 = Kelompok_KKM("Agung Sihab M. , Purwoto, Thoyib Abdillah A.")

print("="*40)
mahasiswa.anggota.add_item1(kel1)
mahasiswa.anggota.add_item2(kel2)
mahasiswa.anggota.items
print(" ")
```

Hasil Running Program



The screenshot displays the Visual Studio Code interface with a Python file named 'Mahasiswa dan Kelompok KKM.py' open. The code defines two classes, 'Mahasiswa' and 'Kelompok_KKM', and an 'Anggota' class. It then creates instances of these classes and prints their details.

```
1  """
2  Nama      : Rifki Fadilah
3  Kelas     : R1
4  NIM       : 210511011
5  """
6  class Mahasiswa:
7      def __init__(self, name):
8          self.name = name
9          self.anggota = Anggota()
10         print("Daftar Nama Mahasiswa Kelompok KKM")
11
12     class Kelompok_KKM:
13         def __init__(self, name):
14             self.name = name
15
16     class Anggota:
17         def __init__(self):
18             self.items = []
19
20         def add_item1(self, item):
21             self.items.append(item)
22             print("Kelompok 1: ", item.name)
23         def add_item2(self, item):
24             self.items.append(item)
25             print("Kelompok 2: ", item.name)
26
27         def remove_item(self, item):
28             self.items.remove(item)
29
30     mahasiswa = Mahasiswa(" ")
31     kel1 = Kelompok_KKM("Rifki Fadilah, M.Hilman Humaini, Tegar Trisakti P.")
32     kel2 = Kelompok_KKM("Agung Sihab M. , Purwoto, Thoyib Abdillah A.")
33
34     print("="*40)
35     mahasiswa.anggota.add_item1(kel1)
```

The terminal output shows the execution of the program, displaying the names of the students and the groups.

```
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ments! https://aka.ms/PSWindows

PS D:\PBO pertemuan 4> & 'C:\Users\avita\AppData\Local\Pr
ograms\Python\Python10\python.exe' 'C:\Users\avita\vsco
d\extensions\ms-python.python-2023.4.1\pythonfiles\lib\pyt
hon\debugpy\adapter\../..\.debugpy\launcher' '-s' 'D:\PBO
 pertemuan 4\Mahasiswa dan Kelompok KKM.py'
Daftar Nama Mahasiswa Kelompok KKM
=====
Kelompok 1: Rifki Fadilah, M.Hilman Humaini, Tegar Trisak
ti P.
Kelompok 2: Agung Sihab M. , Purwoto, Thoyib Abdillah A.

PS D:\PBO pertemuan 4>
```