

Nama : Putri Robi'atul Adawiyah

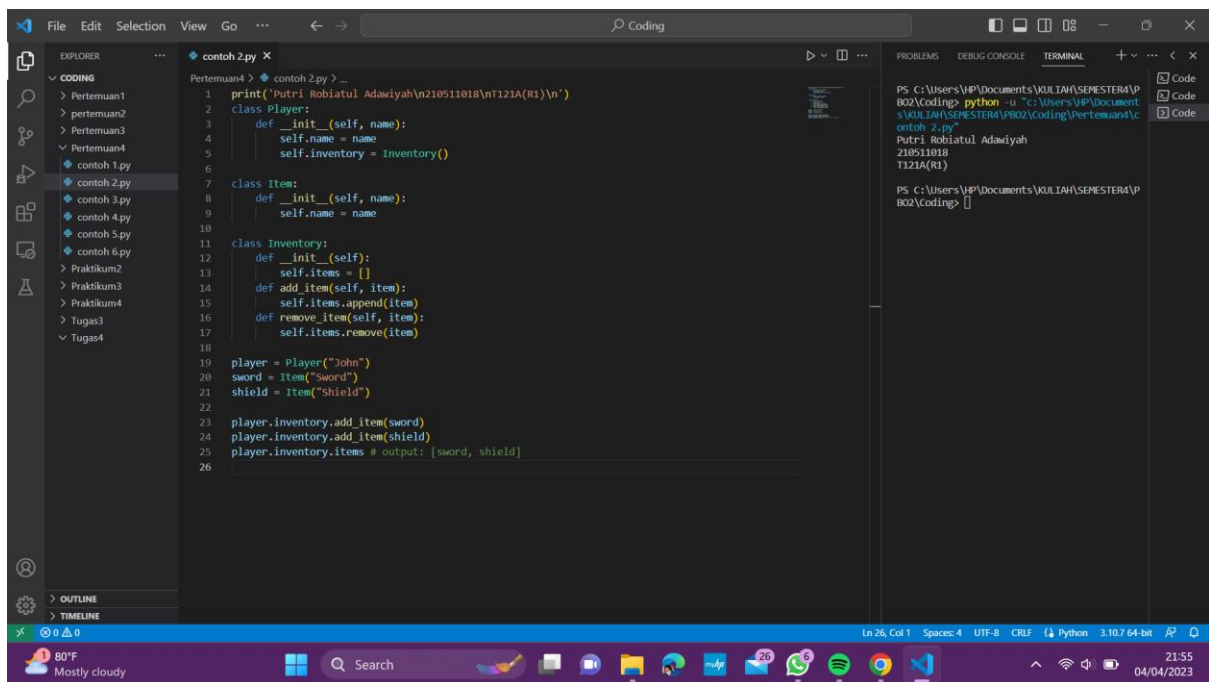
Nim : 210511018

Kelas : TI21A (R1)

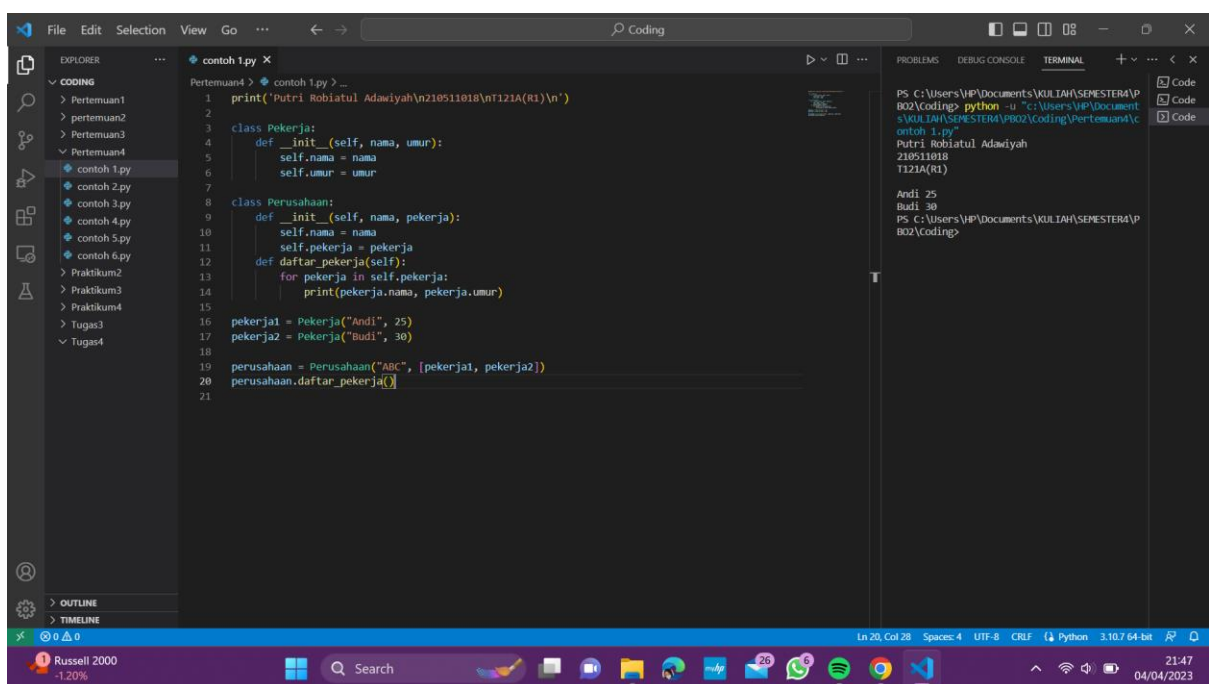
Latihan 4 PBO2

COMPOSITION

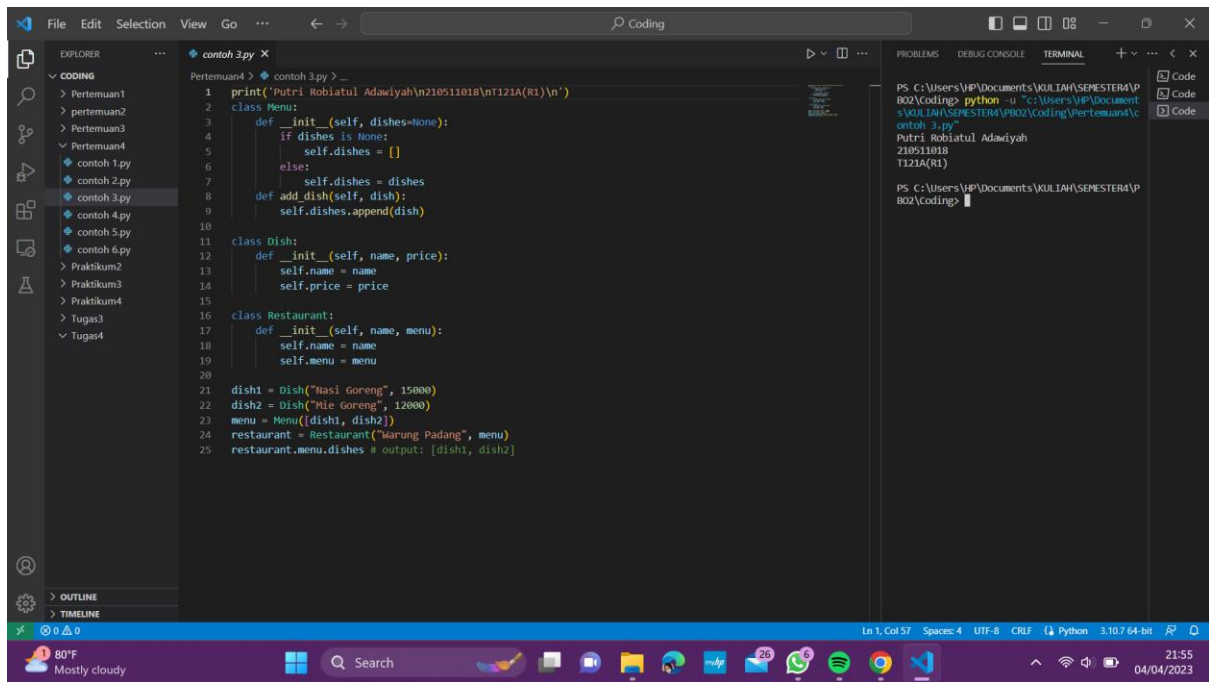
Contoh 1 – 6



```
File Edit Selection View Go ...  
EXPLORER  
CODING  
Pertemuan4 > contoh 2.py > ...  
1 print('Putri Robiatul Adawiyah\n210511018\nTI21A(R1)\n')  
2 class Player:  
3     def __init__(self, name):  
4         self.name = name  
5         self.inventory = Inventory()  
6  
7 class Item:  
8     def __init__(self, name):  
9         self.name = name  
10  
11 class Inventory:  
12     def __init__(self):  
13         self.items = []  
14     def add_item(self, item):  
15         self.items.append(item)  
16     def remove_item(self, item):  
17         self.items.remove(item)  
18  
19 player = Player("John")  
20 sword = Item("Sword")  
21 shield = Item("Shield")  
22  
23 player.inventory.add_item(sword)  
24 player.inventory.add_item(shield)  
25 player.inventory.items # output: [sword, shield]  
26  
PROBLEMS DEBUG CONSOLE TERMINAL  
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\PB02\coding> python -u "c:\Users\HP\Documents\KULIAH\SEMESTER4\PB02\coding\pertemuan4\contoh 2.py"  
Putri Robiatul Adawiyah  
210511018  
TI21A(R1)  
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\PB02\coding> []  
Ln 26, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit  
80°F Mostly cloudy 21:55 04/04/2023
```



```
File Edit Selection View Go ...  
EXPLORER  
CODING  
Pertemuan4 > contoh 1.py > ...  
1 print('Putri Robiatul Adawiyah\n210511018\nTI21A(R1)\n')  
2  
3 class Pekerja:  
4     def __init__(self, nama, umur):  
5         self.nama = nama  
6         self.umur = umur  
7  
8 class Perusahaan:  
9     def __init__(self, nama, pekerja):  
10         self.nama = nama  
11         self.pekerja = pekerja  
12     def daftar_pekerja(self):  
13         for pekerja in self.pekerja:  
14             print(pekerja.nama, pekerja.umur)  
15  
16 pekerja1 = Pekerja("Andi", 25)  
17 pekerja2 = Pekerja("Budi", 30)  
18  
19 perusahaan = Perusahaan("ABC", [pekerja1, pekerja2])  
20 perusahaan.daftar_pekerja()  
21  
PROBLEMS DEBUG CONSOLE TERMINAL  
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\PB02\coding> python -u "c:\Users\HP\Documents\KULIAH\SEMESTER4\PB02\coding\pertemuan4\contoh 1.py"  
Putri Robiatul Adawiyah  
210511018  
TI21A(R1)  
Andi 25  
Budi 30  
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\PB02\coding>  
Ln 20, Col 28 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit  
Russell 2000 -1.20% 21:47 04/04/2023
```

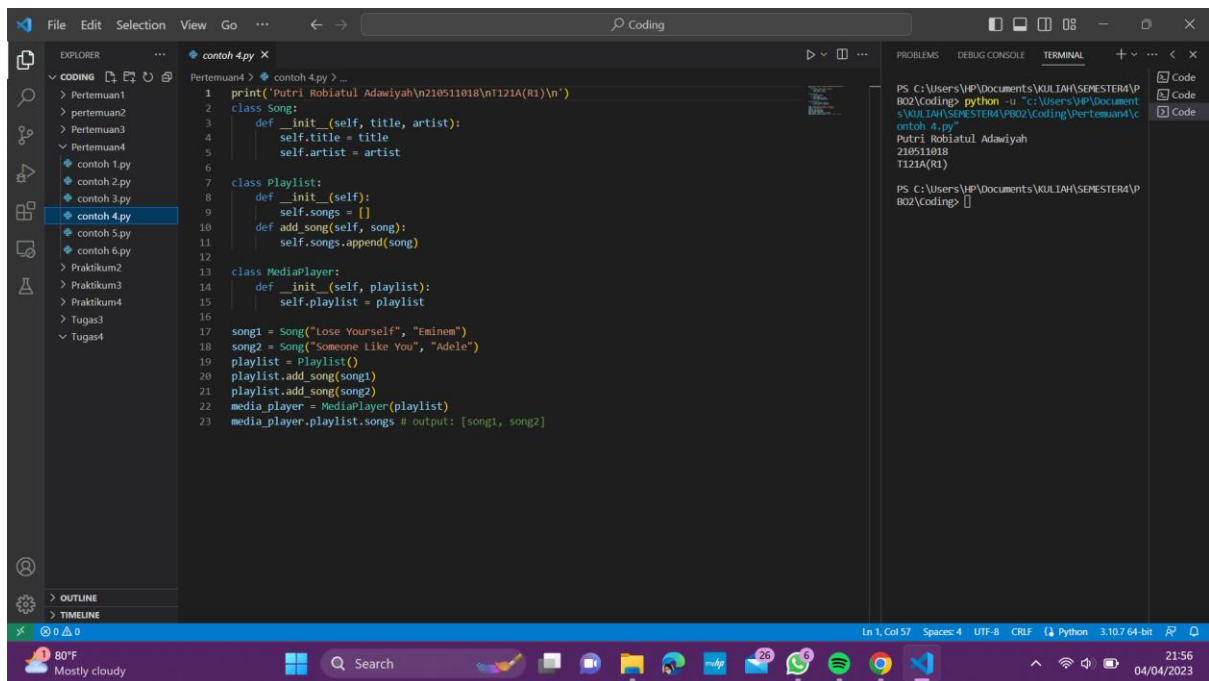


The screenshot shows the Visual Studio Code editor with a file named `contoh 3.py` open. The code defines three classes: `Menu`, `Dish`, and `Restaurant`. The `Menu` class has an `__init__` method that initializes `dishes` as a list, and an `add_dish` method that appends a `Dish` object to the `dishes` list. The `Dish` class has an `__init__` method that takes `name` and `price` as arguments. The `Restaurant` class has an `__init__` method that takes `name` and `menu` as arguments. The code also creates two `Dish` objects, `dish1` and `dish2`, and a `Restaurant` object named `restaurant`. The `restaurant` object's `menu` attribute is assigned the `menu` object, and the `restaurant` object's `dishes` attribute is assigned the output of the `add_dish` method.

```
1 print('Putri Robiatul Adawiyah\n210511018\n1121A(R1)\n')
2 class Menu:
3     def __init__(self, dishes=None):
4         if dishes is None:
5             self.dishes = []
6         else:
7             self.dishes = dishes
8     def add_dish(self, dish):
9         self.dishes.append(dish)
10
11 class Dish:
12     def __init__(self, name, price):
13         self.name = name
14         self.price = price
15
16 class Restaurant:
17     def __init__(self, name, menu):
18         self.name = name
19         self.menu = menu
20
21 dish1 = Dish("Nasi Goreng", 15000)
22 dish2 = Dish("Mie Goreng", 12000)
23 menu = Menu([dish1, dish2])
24 restaurant = Restaurant("Warung Padang", menu)
25 restaurant.menu.dishes # output: [dish1, dish2]
```

The terminal output shows the execution of the program, displaying the name and ID of the user, and the output of the `add_dish` method.

```
PS C:\Users\WP\Documents\KULIAH\SEMESTER4\VP802\coding> python -u "C:\Users\WP\Documents\KULIAH\SEMESTER4\VP802\coding\Pertemuan4\contoh 3.py"
Putri Robiatul Adawiyah
210511018
1121A(R1)
PS C:\Users\WP\Documents\KULIAH\SEMESTER4\VP802\coding>
```

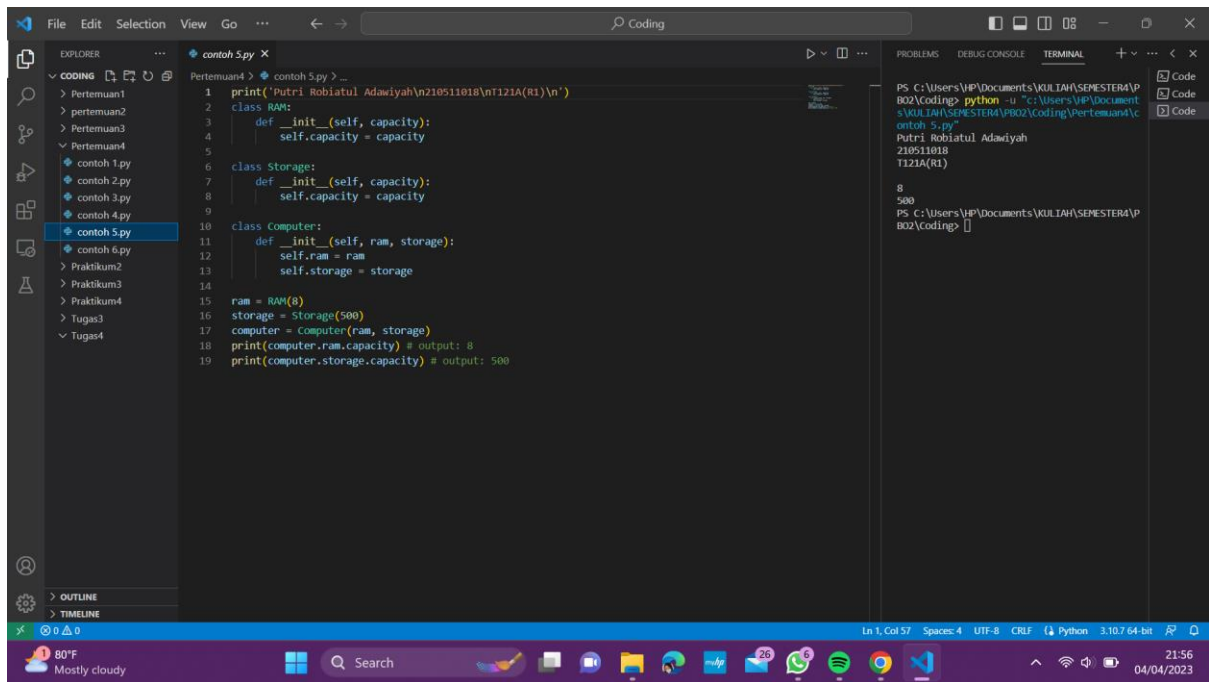


The screenshot shows the Visual Studio Code editor with a file named `contoh 4.py` open. The code defines three classes: `Song`, `Playlist`, and `MediaPlayer`. The `Song` class has an `__init__` method that takes `title` and `artist` as arguments. The `Playlist` class has an `__init__` method that initializes `songs` as a list, and an `add_song` method that appends a `Song` object to the `songs` list. The `MediaPlayer` class has an `__init__` method that takes a `playlist` object as an argument. The code also creates two `Song` objects, `song1` and `song2`, a `Playlist` object named `playlist`, and a `MediaPlayer` object named `media_player`. The `media_player` object's `playlist` attribute is assigned the `playlist` object, and the `media_player` object's `songs` attribute is assigned the output of the `add_song` method.

```
1 print('Putri Robiatul Adawiyah\n210511018\n1121A(R1)\n')
2 class Song:
3     def __init__(self, title, artist):
4         self.title = title
5         self.artist = artist
6
7 class Playlist:
8     def __init__(self):
9         self.songs = []
10     def add_song(self, song):
11         self.songs.append(song)
12
13 class MediaPlayer:
14     def __init__(self, playlist):
15         self.playlist = playlist
16
17 song1 = Song("Lose Yourself", "Eminem")
18 song2 = Song("Someone Like You", "Adele")
19 playlist = Playlist()
20 playlist.add_song(song1)
21 playlist.add_song(song2)
22 media_player = MediaPlayer(playlist)
23 media_player.playlist.songs # output: [song1, song2]
```

The terminal output shows the execution of the program, displaying the name and ID of the user, and the output of the `add_song` method.

```
PS C:\Users\WP\Documents\KULIAH\SEMESTER4\VP802\coding> python -u "C:\Users\WP\Documents\KULIAH\SEMESTER4\VP802\coding\Pertemuan4\contoh 4.py"
Putri Robiatul Adawiyah
210511018
1121A(R1)
PS C:\Users\WP\Documents\KULIAH\SEMESTER4\VP802\coding>
```

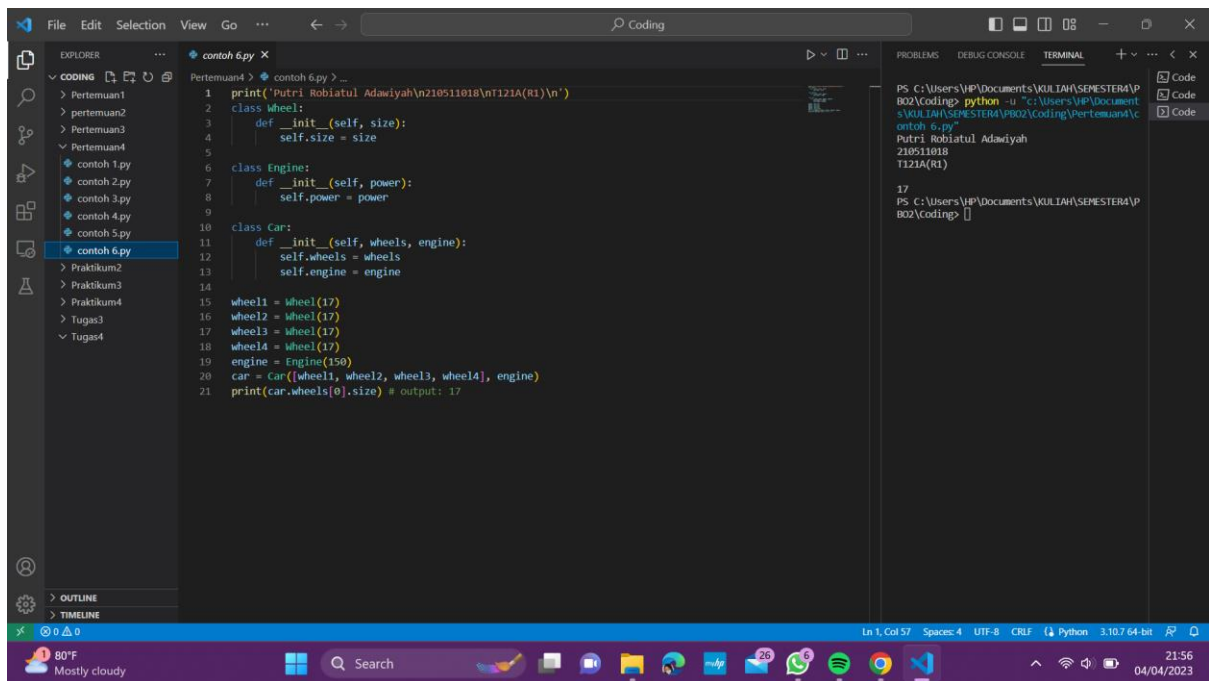


The screenshot shows the Visual Studio Code editor with a file named `contoh 5.py` open. The code defines three classes: `RAM`, `Storage`, and `Computer`. The `RAM` class has an `__init__` method that takes `capacity` as an argument. The `Storage` class also has an `__init__` method that takes `capacity` as an argument. The `Computer` class has an `__init__` method that takes `ram` and `storage` as arguments. The code creates instances of these classes and prints their capacities.

```
1 print('Putri Robiatul Adawiyah\n210511018\n1121A(R1)\n')
2 class RAM:
3     def __init__(self, capacity):
4         self.capacity = capacity
5
6 class Storage:
7     def __init__(self, capacity):
8         self.capacity = capacity
9
10 class Computer:
11     def __init__(self, ram, storage):
12         self.ram = ram
13         self.storage = storage
14
15 ram = RAM(8)
16 storage = Storage(500)
17 computer = Computer(ram, storage)
18 print(computer.ram.capacity) # output: 8
19 print(computer.storage.capacity) # output: 500
```

The terminal output shows the execution of the code:

```
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\VP802\coding> python -u "C:\Users\HP\Documents\KULIAH\SEMESTER4\VP802\coding\Pertemuan4\contoh 5.py"
Putri Robiatul Adawiyah
210511018
1121A(R1)
8
500
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\VP802\coding>
```



The screenshot shows the Visual Studio Code editor with a file named `contoh 6.py` open. The code defines three classes: `Wheel`, `Engine`, and `Car`. The `Wheel` class has an `__init__` method that takes `size` as an argument. The `Engine` class has an `__init__` method that takes `power` as an argument. The `Car` class has an `__init__` method that takes `wheels` and `engine` as arguments. The code creates instances of these classes and prints the size of the first wheel.

```
1 print('Putri Robiatul Adawiyah\n210511018\n1121A(R1)\n')
2 class Wheel:
3     def __init__(self, size):
4         self.size = size
5
6 class Engine:
7     def __init__(self, power):
8         self.power = power
9
10 class Car:
11     def __init__(self, wheels, engine):
12         self.wheels = wheels
13         self.engine = engine
14
15 wheel1 = Wheel(17)
16 wheel2 = Wheel(17)
17 wheel3 = Wheel(17)
18 wheel4 = Wheel(17)
19 engine = Engine(150)
20 car = Car([wheel1, wheel2, wheel3, wheel4], engine)
21 print(car.wheels[0].size) # output: 17
```

The terminal output shows the execution of the code:

```
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\VP802\coding> python -u "C:\Users\HP\Documents\KULIAH\SEMESTER4\VP802\coding\Pertemuan4\contoh 6.py"
Putri Robiatul Adawiyah
210511018
1121A(R1)
17
PS C:\Users\HP\Documents\KULIAH\SEMESTER4\VP802\coding>
```