Name:	ID:	Section: 01

Observe the following Driver Code and its corresponding Output. Design the Bus and Passenger classes so that the following output is generated.

Driver Code	Output

# Do not change the following lines of code 	
 	
``python
bus1 = Bus('Alif', 'Shyamoli-Mohakhali-Banasree', {'Front Seat':10,'Middle Seat':20,'Back Seat':10})
bus2 = Bus('Shatabdi', 'Motijheel-Mohakhali-Abdullahpur', {'Front Seat':10,'Middle Seat':2,'Back Seat':10})
bus1.busInfo()
print("1=====================")
passenger1 = Passenger('Mike', 'Motijheel')
passenger1.book(bus1,'Front Seat-2', 'Middle Seat-1')
print("2=====================")
passenger1.book(bus2,'Middle Seat-1', 'Back Seat-2')
passenger1.book(bus2, 'Back Seat-1', 'Middle Seat-1')
print("3=====================")
passenger1.book(bus2,'Front Seat-2')
print("4=====================")
passenger1.passengerInfo()
print("5=====================")
passenger1.passengerInfo('Front Seat')
print("6=====================")
``
	``
	Alif Bus Details:
	Route: Shyamoli --> Mohakhali -->
	Banasree
	Seat Availability:
	Front Seat - 10
	Middle Seat - 20
	Back Seat - 10
	Passenger Information: {}
	1=====================
	Wrong Bus! Destination doesn't match
	with the bus routes.
	2=====================
	Booking 1 Middle Seat of Shatabdi bus
	for Mike....
	Booking 2 Back Seat of Shatabdi bus
	for Mike....
	Booking 1 Back Seat of Shatabdi bus
	for Mike....
	Booking 1 Middle Seat of Shatabdi bus
	for Mike....
	3=====================
	Mike, you cannot book more than 5
	seats.
	4=====================
	Mike's Destination: Motijheel
	Selected Bus: Shatabdi
	Mike, you have booked 5 Seat(s).
	Seat Details: {'Middle Seat': 2, 'Back
	Seat': 3}
	5=====================
	Mike, you haven't booked any Front
	Seat(s).
	6=====================
	Mike, you have booked 3 Back Seat(s).
	``

```
passenger1.passengerInfo('Back Seat')
print("7=====================")
bus2.busInfo()
print("8=====================")
passenger2 = Passenger('Dustin')
passenger2.book(bus2,'Back Seat-1',
'Front Seat-1', 'Middle Seat-2')
print("9=====================")
passenger2.passengerInfo()
print("10=====================")
bus2.busInfo()
print("11=====================")
passenger3 = Passenger('Lucas',
'Banasree')
passenger3.book(bus1, 'Middle Seat-2')
print("12=====================")
passenger3.passengerInfo()
print("13=====================")
bus1.busInfo()
```

```
7=====================
Shatabdi Bus Details:
Route: Motijheel --> Mohakhali -->
Abdullahpur
Seat Availability:
Front Seat - 10
Middle Seat - 0
Back Seat - 7
Passenger Information: {'Mike': 5}
8=====================
Booking 1 Back Seat of Shatabdi bus
for Dustin....
Booking 1 Front Seat of Shatabdi bus
for Dustin....
Middle Seat  is not available at the
moment.
9=====================
Dustin's Destination: Mohakhali
Selected Bus: Shatabdi
Dustin, you have booked 2 Seat(s).
Seat Details: {'Back Seat': 1, 'Front
Seat': 1}
10=====================
Shatabdi Bus Details:
Route: Motijheel --> Mohakhali -->
Abdullahpur
Seat Availability:
Front Seat - 9
Middle Seat - 0
Back Seat - 6
Passenger Information: {'Mike': 5,
'Dustin': 2}
11=====================
Booking 2 Middle Seat of Alif bus for
Lucas....
12=====================
Lucas's Destination: Banasree
Selected Bus: Alif
Lucas, you have booked 2 Seat(s).
Seat Details: {'Middle Seat': 2}
13=====================
Alif Bus Details:
Route: Shyamoli --> Mohakhali -->
Banasree
Seat Availability:
Front Seat - 10
Middle Seat - 18
Back Seat - 10
Passenger Information: {'Lucas': 2}
```