

CSE111
Quiz 2
Set-A
Time-45 minutes
Marks-20

Name:_____ **ID:**_____

Question 1(CO2)

Design the “**Bus**” class with necessary properties so that the given output is produced.

[Hint:

1. bus_fare contains fare for each bus stop.
2. bus_fare is a global variable. So it can be accessed directly from any method inside the class.
3. Fare is calculated based on where the passenger is getting on the bus.
4. Your code should work for any even number of arguments passed to addPassenger method.]

Driver Code	Output
<pre>#Write your code here bus_fare={"Gabtoli":0,"Shyamoli":10,"Dhanmondi 27":15} bus_fare["Science Lab"]=20 bus_fare["Shahabag"] = 25 bus_fare["Motsho bhaban"] = 30 bus_fare["Stadium"] = 35 print("1.-----") b1 = Bus("7 no bus", "Gabtoli-Gulistan") print("2.-----") b1.addPassenger("Alice", "Science Lab", "Bob", "Dhanmondi 27") print("3.-----") b1.addPassenger("Jack", "Stadium", "Aeron", "Shyamoli") print("4.-----") b1.printDetails() print("5.-----") b1.addPassenger("Robin", "New Market") print("6.-----") b1.reach("Shyamoli") print("7.-----") b1.addPassenger("Jon", "Stadium", "Beck", "Shahabag") print("8.-----") b1.printDetails() print("9.-----") b1.reach("Dhanmondi 27") print("10.-----") b1.addPassenger("Ethan", "Stadium") print("11.-----") b1.printDetails()</pre>	<pre>1.----- 7 no bus is currently at Gabtoli 2.----- Alice please get on the bus. Bob please get on the bus. 3.----- Jack please get on the bus. Aeron please get on the bus. 4.----- Bus Name:7 no bus Route:Gabtoli-Gulistan Total passengers: 4 Total fare collected:80 taka. Passenger List: Gabtoli To Science Lab: Alice Gabtoli To Dhanmondi 27: Bob Gabtoli To Stadium: Jack Gabtoli To Shyamoli: Aeron 5.----- Sorry Robin, this bus does not go to New Market. 6.----- Reached Shyamoli. Aeron please get down. 7.----- Jon please get on the bus. Beck please get on the bus. 8.----- Bus Name:7 no bus Route:Gabtoli-Gulistan Total passengers: 5</pre>

Total fare collected:120 taka.
Passenger List:
Gabtoli To Science Lab: Alice
Gabtoli To Dhanmondi 27: Bob
Gabtoli To Stadium: Jack
Shyamoli To Stadium: Jon
Shyamoli To Shahabag: Beck
9.-----
Reached Dhanmondi 27.
Bob please get down.
10.-----
Ethan please get on the bus.
11.-----
Bus Name:7 no bus
Route:Gabtoli-Gulistan
Total passengers: 5
Total fare collected:140 taka.
Passenger List:
Gabtoli To Science Lab: Alice
Gabtoli To Stadium: Jack
Shyamoli To Stadium: Jon
Shyamoli To Shahabag: Beck
Dhanmondi 27 To Stadium: Ethan

CSE111
Quiz 2
Set-B
Time-45 minutes
Marks-20

Name:_____ **ID:**_____

Question 1(CO2)

Design the “**Bus**” class with necessary properties so that the given output is produced.

[Hint:

1. bus_fare contains fare for each bus stop.
2. bus_fare is a global variable. So it can be accessed directly from any method inside the class.
3. Fare is calculated based on where the passenger is getting on the bus.
4. Your code should work for any even number of arguments passed to addPassenger method.]

Driver Code	Output
<p><i>#Write your code here</i></p> <pre> bus_fare={"Gabtoli":0,"Shyamoli":10,"Dhanmondi":15} bus_fare["Farmgate"]=20 bus_fare["Kaoran bazar"] = 25 bus_fare["Shahabag"] = 30 bus_fare["Stadium"] = 35 print("1.-----") b1 = Bus("8 no bus", "Gabtoli-Gulistan") print("2.-----") b1.addPassenger("Alice","Kaoran bazar","Bob","Dhanmondi") print("3.-----") b1.addPassenger("Jack","Stadium","Aeron","Shyamoli") print("4.-----") b1.printDetails() print("5.-----") b1.addPassenger("Robin","Science Lab") print("6.-----") b1.reach("Shyamoli") print("7.-----") b1.addPassenger("Jon","Stadium","Beck","Shahabag") print("8.-----") b1.printDetails() print("9.-----") b1.reach("Farmgate") print("10.-----") b1.addPassenger("Ethan","Stadium") print("11.-----") b1.printDetails()</pre>	<pre> 1.----- 8 no bus is currently at Gabtoli 2.----- Alice please get on the bus. Bob please get on the bus. 3.----- Jack please get on the bus. Aeron please get on the bus. 4.----- Bus Name:8 no bus Route:Gabtoli-Gulistan Total passengers: 4 Total fare collected:85 taka. Passenger List: Gabtoli To Kaoran bazar: Alice Gabtoli To Dhanmondi: Bob Gabtoli To Stadium: Jack Gabtoli To Shyamoli: Aeron 5.----- Sorry Robin, this bus does not go to Science Lab. 6.----- Reached Shyamoli. Aeron please get down. 7.----- Jon please get on the bus. Beck please get on the bus. 8.----- Bus Name:8 no bus Route:Gabtoli-Gulistan Total passengers: 5</pre>

Total fare collected:130 taka.

Passenger List:

Gabtolli To Kaoran bazar: Alice

Gabtolli To Dhanmondi: Bob

Gabtolli To Stadium: Jack

Shyamoli To Stadium: Jon

Shyamoli To Shahabag: Beck

9.-----

Reached Farmgate.

10.-----

Ethan please get on the bus.

11.-----

Bus Name:8 no bus

Route:Gabtolli-Gulistan

Total passengers: 6

Total fare collected:145 taka.

Passenger List:

Gabtolli To Kaoran bazar: Alice

Gabtolli To Dhanmondi: Bob

Gabtolli To Stadium: Jack

Shyamoli To Stadium: Jon

Shyamoli To Shahabag: Beck

Farmgate To Stadium: Ethan