

Inspiring Excellence

Course Title: Programming Language II
Course Code: CSE 111

Lab Assignment no: 4

Write a class called **Customer** with the required constructor and methods to get the following output.

Subtasks:

- 1. Create a class called Customer.
- 2. Create the required constructor.
- 3. Create a method called **greet** that works if no arguments are passed or if one argument is passed. (*Hint: You may need to use the keyword NONE*)
- 4. Create a method called **purchase** that can take as many arguments as the user wants to give.

[You are not allowed to change the code below]

# Write your codes for subtasks 1-4 here.	ОИТРИТ:
	Hello!
customer_1 = Customer("Sam")	Sam, you purchased 3 item(s):
customer_1.greet()	chips
customer_1.purchase("chips", "chocolate", "orange juice")	chocolate
print("")	orange juice
customer_2 = Customer("David")	
customer_2.greet("David")	Hello David!
customer_2.purchase("orange juice")	David, you purchased 1 item(s):
	orange juice

The Giant Panda Protection and Research Center in the Sichuan province of southwest China, actually employs a category of workers known as panda nannies. The primary responsibility is to play with adorable panda cubs and name them, determine gender, keep track of their age and hours they sleep. So being a programmer panda nanny, you will create a code that will do all these works for you.

- 1. Create a class named **Panda** and also write the constructor.
- 2. Access the instance attributes and print them in the given format.
- 3. Call instance methods to keep track of their daily hours of sleep.
- 4. Suppose consulting with other panda nannies you have set some criteria based on which you will make their diet plans. The criteria are:
 - ** Mixed Veggies for pandas having 3 to 5 hours (included) of sleep daily.
 - ** Eggplant & Tofu for pandas having 6 to 8 hours (included) of sleep daily.
 - ** Broccoli Chicken for pandas having 9 to 11 hours (included) of sleep daily.
 - ** Lastly if no arguments are passed then just give it bamboo leaves.

Now handle this problem modifying the method designed to keep track of their daily hours of sleep and determine diet plan using method overloading.

[You are not allowed to change the code below]

#Write your code here for subtasks 1-4.

print(panda3.sleep())

panda1 = Panda("Kunfu","Male", 5)
panda2=Panda("Pan Pan","Female",3)
panda3=Panda("Ming Ming","Female",8)

print("{} is a {} Panda Bear who is {} years
old".format(panda1.name,panda1.gender,panda1.age))

print("{} is a {} Panda Bear who is {} years
old".format(panda2.name,panda2.gender,panda2.age))

print("{} is a {} Panda Bear who is {} years
old".format(panda2.name,panda3.gender,panda3.age))

print("{} is a {} Panda Bear who is {} years
old".format(panda3.name,panda3.gender,panda3.age))

print("====================")

print(panda2.sleep(10))
print(panda1.sleep(4))

OUTPUT:

Kunfu is a Male Panda Bear who is 5 years old

Pan Pan is a Female Panda Bear who is 3 years old

Ming Ming is a Female Panda Bear who is 8 years old

Pan Pan sleeps 10 hours daily and should have Broccoli Chicken

Kunfu sleeps 4 hours daily and should have Mixed Veggies

Ming Ming's duration is unknown thus should have only bamboo leaves

Analyze the given code below to write **Cat** class to get the output as shown. Hints:

- Remember, the constructor is a special method. Here, you have to deal with constructor overloading which is similar to method overloading.
- You may need to use the keyword None
- Your class should have 2 variables

[You are not allowed to change the code below]

#Write your code here c1 = Cat() c2 = Cat("Black") c3 = Cat("Brown", "jumping") c4 = Cat("Red", "purring") c1.printCat() c2.printCat() c3.printCat() c4.printCat()	OUTPUT White cat is sitting Black cat is sitting Brown cat is jumping Red cat is purring Blue cat is sitting Purple cat is jumping

Task 4

Implement the design of the <u>Student</u> class so that the following output is produced:

Driver Code	Output
# Write your code here s1 = Student() s1.quizcalc(10) print('') s1.printdetail() s2 = Student('Harry') s2.quizcalc(10,8) print('') s2.printdetail() s3 = Student('Hermione') s3.quizcalc(10,9,10) print('') s3.printdetail()	Hello default student Your average quiz score is 3.3333333333333333333333333333333333

Design the **Student** class such a way so that the following code provides the expected output.

Hint:

- Write the constructor with appropriate default value for arguments.
- Write the dailyEffort() method with appropriate argument.
- Write the prinDetails() method. For printing suggestions check the following instructions.
 - If hour <= 2 print 'Suggestion: Should give more effort!'</p>
 - ➤ If hour <= 4 print 'Suggestion: Keep up the good work!'</p>
 - Else print 'Suggestion: Excellent! Now motivate others.'

[You are not allowed to change the code below]

Write your code here. **OUTPUT:** harry = Student('Harry Potter', 123) Name: Harry Potter ID: 123 harry.dailyEffort(3) harry.printDetails() Department: CSE print('=======') Daily Effort: 3 hour(s) john = Student("John Wick", 456, "BBA") Suggestion: Keep up the good work! john.dailyEffort(2) _____ john.printDetails() Name: John Wick print('======') ID: 456 naruto = Student("Naruto Uzumaki", 777, "Ninja") Department: BBA naruto.dailyEffort(6) Daily Effort: 2 hour(s) naruto.printDetails() Suggestion: Should give more effort! _____ Name: Naruto Uzumaki ID: 777 Department: Ninja Daily Effort: 6 hour(s) Suggestion: Excellent! Now motivate others.

Implement the design of the **Patient** class so that the following output is produced:

[You are not allowed to change the code below]

======================================
ms: Headache
ms: Headache
===========
Carol
ms: Vomiting, Coughing
Лike
::

Task 7

Design the **Match** class such a way so that the following code provides the expected

# Write your code here.	OUTPUT:
match1 = Match("Rangpur Riders-Cumilla Victorians")	54321 Play !!!
print("======"")	
match1.add_run(4)	Batting Team: Rangpur Riders
match1.add_run(6)	Bowling Team: Cumilla Victorians
match1.add_over(1)	Total Runs: 11 Wickets: 0 Overs: 1
print(match1.print_scoreboard())	Total Nulls. 11 Wickets. 0 Overs. 1
print("======"")	=======================================
match1.add_over(5)	Warning! Cannot add 5 over/s (5 over match)
print("======"")	=======================================
match1.add_wicket(1)	Batting Team: Rangpur Riders
print(match1.print_scoreboard())	Bowling Team: Cumilla Victorians
	Total Runs: 11 Wickets: 1 Overs: 1

Design the **ParcelKoro** class such a way so that the following code provides the expected output.

<u>**Hint**</u>: total_fee = (total_weight * 20) + location_charge.

Note: For the method calculate fee: if the delivery location is not given, the location_charge will be 50 taka or else 100 taka. Also, while calculating total fee, if the product weight is 0 the total_fee should also be 0.

Assume only these 3 ways you can create an object of a class.

[You are not allowed to change the code below]

# Write your code here.	OUTPUT:
print("************")	********
p1 = ParcelKoro()	Customer Name: No name set
p1.calculateFee()	Product Weight: 0
p1.printDetails()	Total fee: 0
print("************") p2 = ParcelKoro('Bob The Builder')	Customer Name: Bob The Builder Product Weight: 0
p2.calculateFee()	Total fee: 0
p2.printDetails() print("") p2.product_weight = 15 p2.calculateFee() p2.printDetails(print("***********************************) p3 = ParcelKoro('Dora The Explorer', 10) p3.calculateFee('Dhanmondi')	Customer Name: Bob The Builder Product Weight: 15 Total fee: 350 ************************************
p3.printDetails()	

Implement the design of the **Batsman** class so that the following output is produced:

<u>Hint</u>: Batting strike rate (s/r) = runsScored / ballsFaced x 100.

Driver Code	Output
# Write your code here b1 = Batsman(6101, 7380) b1.printCareerStatistics()	Name: New Batsman Runs Scored: 6101, Balls Faced: 7380
print("========"") b2 = Batsman("Liton Das", 678, 773) b2.printCareerStatistics() print("")	Name: Liton Das Runs Scored: 678 , Balls Faced: 773 87.71021992238033
print(b2.battingStrikeRate()) print("==========") b1.setName("Shakib AI Hasan") b1.printCareerStatistics() print("") print(b1.battingStrikeRate())	Name: Shakib Al Hasan Runs Scored: 6101 , Balls Faced: 738082.66937669376694

Task 10

Implement the design of the **EPL_Team** class so that the following output is produced:

Driver Code	Output
# Write your code here manu = EPL_Team('Manchester United', 'Glory Glory Man United') chelsea = EPL_Team('Chelsea') print('============') print(manu.showClubInfo()) print('##################") manu.increaseTitle() print(manu.showClubInfo()) print('============') print(chelsea.showClubInfo()) chelsea.changeSong('Keep the blue flag flying high')	Name: Manchester United Song: Glory Glory Man United Total No of title: 0 ############### Name: Manchester United Song: Glory Glory Man United Total No of title: 1 ====================================
print(chelsea.showClubInfo())	Song: Keep the blue flag flying high Total No of title: 0

<u>Task 11</u>

Implement the design of the <u>Author</u> class so that the following output is produced:

Driver Code	Output
# Write your code here	Author Name: Humayun Ahmed
auth1 = Author('Humayun Ahmed') auth1.addBooks('Deyal', 'Megher Opor Bari') auth1.printDetails() print('============') auth2 = Author() print(auth2.name) auth2.changeName('Mario Puzo') auth2.addBooks('The Godfather', 'Omerta', 'The Sicilian') print('===========') auth2.printDetails() print('=============') auth3 = Author('Paolo Coelho', 'The Alchemist', 'The Fifth Mountain') auth3.printDetails()	List of Books: Deyal Megher Opor Bari =========== Default ============ Author Name: Mario Puzo List of Books: The Godfather Omerta The Sicilian ============ Author Name: Paolo Coelho List of Books: The Alchemist The Fifth Mountain

Using TaxiLagbe apps, users can share a single taxi with multiple people.

Implement the design of the **TaxiLagbe** class so that the following output is produced:

Hint:

- 1. Each taxi can carry maximum 4 passengers
- 2. addPassenger() method takes the last name of the passenger and ticket fare for that person in an underscore (-) separated string.

Driver Code	Output
# Write your code here # Do not change the following lines of code.	Dear Walker! Welcome to TaxiLagbe. Dear Wood! Welcome to TaxiLagbe.
taxi1 = TaxiLagbe('1010-01', 'Dhaka')	Dear Matt! Welcome to TaxiLagbe. Dear Wilson! Welcome to TaxiLagbe.
print('') taxi1.addPassenger('Walker_100', 'Wood_200') taxi1.addPassenger('Matt_100') taxi1.addPassenger('Wilson_105') print('')	Trip info for Taxi number: 1010-01 This taxi can cover only Dhaka area. Total passengers: 4 Passenger lists: Walker, Wood, Matt, Wilson Total collected fare: 505 Taka
taxi1.printDetails()	Taxi Full! No more passengers can be added.
print('') taxi1.addPassenger('Karen_200') print('') taxi1.printDetails() print('')	Trip info for Taxi number: 1010-01 This taxi can cover only Dhaka area. Total passengers: 4 Passenger lists: Walker, Wood, Matt, Wilson Total collected fare: 505 Taka
taxi2 = TaxiLagbe('1010-02', 'Khulna') taxi2.addPassenger('Ronald_115')	Dear Ronald! Welcome to TaxiLagbe. Dear Parker! Welcome to TaxiLagbe.
taxi2.addPassenger('Parker_215') print('') taxi2.printDetails()	Trip info for Taxi number: 1010-02 This taxi can cover only Khulna area. Total passengers: 2 Passenger lists: Ronald, Parker Total collected fare: 330 Taka

Task 13

Implement the design of the Account class so that the following output is produced:

Driver Code	Output
# Write your code here	Default Account 0.0
a1 = Account()	Oliver
print(a1.details())	10000.0
print("")	 Liam
a1.name = "Oliver"	0.0
a1.balance = 10000.0	No als
print(a1.details())	Noah 400.0
print("")	
a2 = Account("Liam")	Sorry, Withdraw unsuccessful! The account balance after deducting withdraw amount is
print(a2.details())	equal to or less than minimum.
print("")	Sorry, Withdraw unsuccessful! The account
a3 = Account("Noah",400)	balance after deducting withdraw amount is
print(a3.details())	equal to or less than minimum.
print("")	Withdraw successful! New balance is: 3071.0
a1.withdraw(6930)	
print("")	
a2.withdraw(600)	
print("")	
a1.withdraw(6929)	
a2.withdraw(600) print("")	

Implement the design of the **StudentDatabase** class so that the following output is produced:

GPA = Sum of (Grade Points * Credits)/ Credits attempted

Driver Code	Output
# Write your code here # Do not change the following lines of code.	Grades for Pietro {'Summer2020': {('CSE230', 'CSE220', 'MAT110'): 4.0}, 'Summer2021': {('CSE250', 'CSE330'): 3.85}}
s1 = StudentDatabase('Pietro', '10101222') s1.calculateGPA(['CSE230: 4.0', 'CSE220: 4.0', 'MAT110: 4.0'], 'Summer2020') s1.calculateGPA(['CSE250: 3.7', 'CSE330: 4.0'], 'Summer2021') print(f'Grades for {s1.name}\n{s1.grades}') print('') s1.printDetails() s2 = StudentDatabase('Wanda', '10103332')	Name: Pietro ID: 10101222 Courses taken in Summer2020: CSE230 CSE220 MAT110 GPA: 4.0 Courses taken in Summer2021: CSE250 CSE250 CSE330 GPA: 3.85
s2.calculateGPA(['CSE111: 3.7', 'CSE260: 3.7', 'ENG101: 4.0'],	Grades for Wanda {'Summer2022': {('CSE111', 'CSE260', 'ENG101'): 3.8}} Name: Wanda ID: 10103332 Courses taken in Summer2022: CSE111 CSE260 ENG101 GPA: 3.8

1	class Fi	inalT6A:
2	def	init(self, x, p):
3		self.temp, self.sum, self.y = 4, 0, 1
4		self.temp += 1
5		self.y = self.temp - p
6		self.sum = self.temp + x
7		<pre>print(x, self.y, self.sum)</pre>
8	def	<pre>methodA(self):</pre>
9		x = 0
10		$\mathbf{y} = 0$
11		y = y + self.y
12		x = self.y + 2 + self.temp
13		self.sum = x + y + self.methodB(self.temp, y)
14		<pre>print(x, y, self.sum)</pre>
15	def	<pre>methodB(self, temp, n):</pre>
16		$\mathbf{x} = 0$
17		temp += 1
18		self.y = self.y + temp
19		x = x + 3 + n
20		self.sum = self.sum + x + self.y
21		<pre>print(x, self.y, self.sum)</pre>
22		return self.sum

What is the output of the following code sequence?	х	У	sum
q1 = FinalT6A(2,1) q1.methodA()			
q1.methodA()			

1	class Quiz3A:
2	<pre>definit(self, k = None):</pre>
3	self.temp, self.sum, self.y = 4, 0, 0
4	if k != None:
5	self.temp += 1
6	self.temp = self.temp
7	self.sum = self.temp + k
8	self.y = self.sum - 1
9	else:
10	self.y = self.temp - 1
11	self.sum = self.temp + 1
12	self.temp += 2
13	<pre>def methodB(self, m, n):</pre>
14	$\mathbf{x} = 0$
15	self.temp += 1
16	self.y = self.y + m + (self.temp)
17	x = x + 2 + n
18	self.sum = self.sum + x + self.y
19	<pre>print(x, self.y, self.sum)</pre>
20	return self.sum

What is the output of the	х	У	sum
following code sequence?			
a1 = Quiz3A()			
a1.methodB(1,2)			
a2 = Quiz3A(3)			
a2.methodB(2,4)			
a1.methodB(2,1)			
a2.methodB(1,3)			

1	class Test5:
2	<pre>definit(self):</pre>
3	self.sum = 0
4	self.y = 0
5	<pre>def methodA(self):</pre>
6	x=y=k=0
7	msg = [5]
8	while (k < 2):
9	y += msg[0]
10	x = y + self.methodB(msg, k)
11	self.sum = x + y + msg[0]
12	<pre>print(x ," " , y, " " , self.sum)</pre>
13	k+=1
14	<pre>def methodB(self, mg2, mg1):</pre>
15	$\mathbf{x} = 0$
16	self.y += mg2[0]
17	x = x + 3 + mg1
18	self.sum += x + self.y
19	mg2[0] = self.y + mg1
20	mg1 += x + 2
21	<pre>print(x , " " ,self.y, " " , self.sum)</pre>
22	return mg1

What is the output of the following code sequence?	x	У	sum
t1 = Test5() t1.methodA()			
t1.methodA() t1.methodA()			

1	class Test4:
2	<pre>definit(self):</pre>
3	self.sum, $self.y = 0$, 0
4	<pre>def methodA(self):</pre>
5	$\mathbf{x}, \ \mathbf{y} = 0, \ 0$
6	msg = [0]
7	msg[0] = 5
8	y = y + self.methodB(msg[0])
9	x = y + self.methodB(msg, msg[0])
10	self.sum = x + y + msg[0]
11	<pre>print(x, y, self.sum)</pre>
12	<pre>def methodB(self, *args):</pre>
13	<pre>if len(args) == 1:</pre>
14	mg1 = args[0]
15	$\mathbf{x}, \ \mathbf{y} = 0, \ 0$
16	y = y + mg1
17	x = x + 33 + mg1
18	self.sum = self.sum + x + y
19	self.y = mg1 + x + 2
20	<pre>print(x, y, self.sum)</pre>
21	return y
22	else:
23	mg2, $mg1 = args$
24	x = 0
25	self.y = self.y + mg2[0]
26	x = x + 33 + mg1
27	self.sum = self.sum + x + self.y
28	mg2[0] = self.y + mg1
29	mg1 = mg1 + x + 2
30	<pre>print(x, self.y, self.sum)</pre>
31	return self.sum

t3 = Test4()	x	У	sum
t3.methodA()			

```
1
   class msgClass:
              init (self):
2
       def
3
            self.content = 0
   class Q5:
       def init (self):
            self.sum = 1
6
            self.x = 2
7
            self.y = 3
        def methodA(self):
10
            x, y = 1, 1
11
            msg = \overline{[]}
            myMsg = msgClass()
12
            myMsg.content = self.x
13
14
            msg.append(myMsg)
            msg[0].content = self.y + myMsg.content
15
16
            self.y = self.y + self.methodB(msg[0])
17
            y = self.methodB(msq[0]) + self.y
18
            x = y + self.methodB(msg[0], msg)
            self.sum = x + y + msg[0].content
19
            print(x," ", y," ", self.sum)
20
        def methodB(self, mg1, mg2 = None):
21
22
            if mg2 == None:
23
                x, y = 5, 6
                y = self.sum + mgl.content
24
25
                self.y = y + mg1.content
26
                x = self.x + 7 + mg1.content
27
                self.sum = self.sum + x + y
28
                self.x = mg1.content + x + 8
                print(x, " ", y," ", self.sum)
29
30
                return y
```

31	else:
32	x = 1
33	self.y += mg2[0].content
34	mg2[0].content = self.y + mg1.content
35	x = x + 4 + mg1.content
36	self.sum += x + self.y
37	mg1.content = self.sum - mg2[0].content
38	<pre>print(self.x, " ",self.y," ", self.sum)</pre>
39	return self.sum

What is the output of the following code sequence?	х	у	sum
q = Q5()			
q.methodA()			

Practice Task (20 - 25) Ungraded

Task 20

Design a **Student** class so that the following output is produced upon executing the following code

Driver Code	Output
# Write your code here	Student name and department need to be set
# Do not change the following lines of code.	Department for Carol needs to be set
s1 = Student() print("======="")	Jon is from EEE department
s2 = Student("Carol") print("=========")	#######################################
s3 = Student("Jon", "EEE") print("=========") s1.update_name("Bob") s1.update_department("CSE") s2.update_department("BBA") s1.enroll("CSE110", "MAT110", "ENG091")	Name: Bob Department: CSE Bob enrolled in 3 course(s): CSE110, MAT110, ENG091 ====================================
s2.enroll("BUS101") s3.enroll("MAT110", "PHY111") print("###############"") s1.printDetail() print("========"") s2.printDetail() print("========"") s3.printDetail()	Department: BBA Carol enrolled in 1 course(s): BUS101 ===================================

Design a **Student** class so that the following output is produced upon executing the following code:
[Hint: Each course has 3.0 credit hours. You must take at least 9.0 and at most 12.0

credit hours]

Driver Code	Output
# Write your code here # Do not change the following lines of code. s1 = Student("Alice", "20103012", "CSE") s2 = Student("Bob", "18301254", "EEE") s3 = Student("Carol", "17101238", "CSE") print("#########################") print(s1.details()) print("#######################") s1.advise("CSE110", "MAT110", "PHY111") print("###########################") s2.advise("BUS101", "MAT120") print("####################################	######################################

Write the **Hotel** class with the required methods to give the following output as shown.

Driver Code	Output
# Write your code here	Staff With ID 1 is added
# Do not change the following lines of code. h = Hotel("Lakeshore") h.addStuff("Adam", 26)	Staff ID: 1 Name: Adam Age: 26 Phone no.: 000
print("======="") print(h.getStuffById(1))	Guest With ID 1 is created
print("======="") h.addGuest("Carol",35,"123") print("=========="")	Guest ID: 1 Name: Carol Age: 35 Phone no.: 123
print(h.getGuestById(1))	Guest With ID 2 is created
print("======="") h.addGuest("Diana", 32, "431") print("========="") print(h.getGuestByld(2))	Guest ID: 2 Name: Dianal Age: 32 Phone no.: 431
print("======="") h.allStaffs()	All Staffs: Number of Staff: 1 Staff ID: 1 Name: Adam Age: 26 Phone no: 000
print("======="") h.allGuest()	All Guest: Number of Guest: 2 Guest ID: 1 Name: Carol Age: 35 Phone no.: 123 Guest ID: 2 Name: Dianal Age: 32 Phone no.: 431

Write the **Author** class with the required methods to give the following outputs as shown.

Driver Code	Output
# Write your code here	A book can not be added without author name
# Do not change the following lines of code. a1 = Author() print("========="") a1.addBook("Ice", "Science Fiction") print("=========="")	Number of Book(s): 1 Author Name: Anna Kavan Science Fiction: Ice
a1.setName("Anna Kavan") a1.addBook("Ice", "Science Fiction") a1.printDetail() print("=========")	Number of Book(s): 2 Author Name: Humayun Ahmed Science Fiction: Onnobhubon Horror: Megher Upor Bari
a2 = Author("Humayun Ahmed") a2.addBook("Onnobhubon", "Science Fiction") a2.addBook("Megher Upor Bari", "Horror") print(========"") a2.printDetail()	Number of Book(s): 3 Author Name: Humayun Ahmed Science Fiction: Onnobhubon, Ireena Horror: Megher Upor Bari
a2.addBook("Ireena", "Science Fiction") print("========"") a2.printDetail() print("========="")	

Implement the design of the **Hospital, Doctor and Patient** class so that the following output is produced:

Driver Code	Output
# Write your code here # Do not change the following lines of code. h = Hospital("Evercare") d1 = Doctor("1d","Doctor", "Samar Kumar", "Neurologist") h.addDoctor(d1) print("===============") print(h.getDoctorByID("1d")) print("=============") p1 = Patient("1p","Patient", "Kashem Ahmed", 35, 12345) h.addPatient(p1) print("============") print(h.getPatientByID("1p")) print("===========") p2 = Patient ("2p","Patient", "Tanina Haque", 26, 33456) h.addPatient(p2) print("============") print(h.getPatientByID("2p")) print("==========") h.allDoctors() h.allPatients()	======================================
	Age: 26 Phone no.: 33456 ====================================

Design the **Vaccine** and **Person** class so that the following expected output is generated.

[N.B: Students will get vaccines on a priority basis. So, age for students doesn't matter]

Driver Code	Output
# Write your code here	=======================================
	1st dose done for Bob
astra = Vaccine("AstraZeneca", "UK", 60) modr = Vaccine("Moderna", "UK", 30) sin = Vaccine("Sinopharm", "China", 30) p1 = Person("Bob", 21, "Student") print("==========="")	Name: Bob Age: 21 Type: Student Vaccine name: AstraZeneca 1st dose: Given 2nd dose: Please come after 60 days
p1.pushVaccine(astra)	Sorry Bob, you can't take 2 different vaccines
print("========") p1.showDetail()	2nd dose done for Bob
print("======="")	Name: Bob Age: 21 Type: Student
p1.pushVaccine(sin, "2nd Dose")	Vaccine name: AstraZeneca
print("=========") p1.pushVaccine(astra, "2nd Dose")	1st dose: Given 2nd dose: Given
print("========") p1.showDetail()	Sorry Carol, Minimum age for taking vaccines is 25 years now.
print("=========") p2 = Person("Carol", 23, "Actor")	
print("========"") p2.pushVaccine(sin)	1st dose done for David
print("======="") p3 = Person("David", 34) print("==========")	Name: David Age: 34 Type: General Citizen Vaccine name: Moderna 1st dose: Given 2nd dose: Please come after 30 days
p3.pushVaccine(modr) print("========="")	
p3.showDetail() print("=========")	2nd dose done for David
p3.pushVaccine(modr, "2nd Dose")	