**Quiz 02**

**Programming Language II**

**Course Code: CSE111**

**Semester: Fall 2022**

**Time: 50 Minutes** **Full marks: 20**

| **Name:** | **ID:** | **Section:** |
| --- | --- | --- |

| **Que Question 01 [CO2, CO4]** | **10 Marks** |
| --- | --- |

Design the **AndroidPhone** class so that the following output is produced:

| **Driver Code** | **Output** |
| --- | --- |
| oneplus = AndroidPhone('OnePlus', '9 Pro', 61000)  print('1==============================')  oneplus.addProperties('Snapdragon', '8/256 GB', '50 MP Camera')  print('2==============================')  oneplus.showInfo()  print('3==============================')  oppo = AndroidPhone('Oppo', 'Reno 8 Pro')  print('4==============================')  oppo.updatePrice(48000)  oppo.addProperties('MediaTek', '8/256 GB', 'AMOLED', '5G')  print('5==============================')  oppo.showInfo() | Thanks for buying OnePlus 9 Pro!  1==============================  2==============================  Phone: OnePlus 9 Pro  Price: 61000 Tk  Properties:  Snapdragon, 8/256 GB, 50 MP Camera  Phone type: Gaming Phone  3==============================  Price of Oppo Reno 8 Pro is unknown!  4==============================  5==============================  Phone: Oppo Reno 8 Pro  Price: 48000 Tk  Properties:  MediaTek, 8/256 GB, AMOLED, 5G  Phone type: Non-Gaming Phone |

| **Que Question 02 [CO2, CO4]** | **10 Marks** |
| --- | --- |

| 1. **class QuizA:** |
| --- |
| 1. **def \_\_init\_\_(self, z = None):** |
| 1. **if z == None:** |
| 1. **self.x = 9** |
| 1. **self.y = 2** |
| 1. **self.sum = 3** |
|  |
| 1. **def methodA(self, x):** |
| 1. **self.y = x + self.sum** |
| 1. **self.sum = x + 3 + self.y** |
| 1. **print(self.x, self.y, self.sum)** |
| 1. **temp = [self.x]** |
| 1. **self.sum += temp[0]** |
| 1. **self.x = 2 + self.methodB(temp)** |
| 1. **print(self.x, self.y, self.sum + 2)** |
|  |
| 1. **def methodB(self, a):** |
| 1. **y = 3** |
| 1. **self.x -= 2** |
| 1. **self.sum += a[0]** |
| 1. **a[0] = a[0] + self.y - self.sum** |
| 1. **print(self.x, y, self.sum)** |
| 1. **return a[0]** |

| **Driver Code:**  **q1 = QuizA()**  **q1.methodA(4)**  **q2 = QuizA("Default")** |
| --- |

**Output:**

|  |  |  |
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| **Que Question 01 [CO2, CO4]** | **10 Marks** |
| --- | --- |

Design the **AndroidPhone** class so that the following output is produced:

| **Driver Code** | **Output** |
| --- | --- |
| oneplus = AndroidPhone('OnePlus', '9 Pro', 61000)  print('1==============================')  oneplus.addProperties('Snapdragon', '8/256 GB', '50 MP Camera')  print('2==============================')  oneplus.showInfo()  print('3==============================')  oppo = AndroidPhone('Oppo', 'Reno 8 Pro')  print('4==============================')  oppo.updatePrice(48000)  oppo.addProperties('MediaTek', '8/256 GB', 'AMOLED', '5G')  print('5==============================')  oppo.showInfo() | Thanks for buying OnePlus 9 Pro!  1==============================  2==============================  Phone: OnePlus 9 Pro  Price: 61000 Tk  Properties:  Snapdragon, 8/256 GB, 50 MP Camera  Phone type: Gaming Phone  3==============================  Price of Oppo Reno 8 Pro is unknown!  4==============================  5==============================  Phone: Oppo Reno 8 Pro  Price: 48000 Tk  Properties:  MediaTek, 8/256 GB, AMOLED, 5G  Phone type: Non-Gaming Phone |

| **Que Question 02 [CO2, CO4]** | **10 Marks** |
| --- | --- |

| 1. **class QuizA:** |
| --- |
| 1. **def \_\_init\_\_(self, z = None):** |
| 1. **if z == None:** |
| 1. **self.x = 7** |
| 1. **self.y = 1** |
| 1. **self.sum = 2** |
|  |
| 1. **def methodA(self, x):** |
| 1. **self.y = x + self.sum** |
| 1. **self.sum = x + 3 + self.y** |
| 1. **print(self.x, self.y, self.sum)** |
| 1. **temp = [self.x]** |
| 1. **self.sum += temp[0]** |
| 1. **self.x = 2 + self.methodB(temp)** |
| 1. **print(self.x, self.y, self.sum + 2)** |
|  |
| 1. **def methodB(self, a):** |
| 1. **y = 4** |
| 1. **self.x -= 2** |
| 1. **self.sum += a[0]** |
| 1. **a[0] = a[0] + self.y - self.sum** |
| 1. **print(self.x, y, self.sum)** |
| 1. **return a[0]** |

| **Driver Code:**  **q1 = QuizA()**  **q1.methodA(4)**  **q2 = QuizA("Default")** |
| --- |

**Output:**

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