Python Developer Test Questions

Question 1

Create a base class with:

* Three properties initialized at construction
* One empty classmethod
* One empty instance method

Question 2

Create a derived class from the base class

* Inherits all properties and methods from the base class
* Initialize the properties differently from the base class
* Add code to the empty methods

Question 3

Use list comprehension and a lambda function to extract all of the even integers out of a list of integers

Question 4

Use the next() function to find the first element in a list of dictionaries whose attribute ‘x’ = 5. Default to an empty dictionary if not found.

Question 5

Given the following JSON document:

{

"claimId": "99999-100000",

"payee": {

"id": 9999,

"role": "Payee"

},

"claimDateTime": 1634860244000,

"invoiceCount": 7,

"status": "LoadComplete",

"invoiceIds": [

"XXA15839",

"XXA25829",

"XXA35832",

"XXA45830",

"XXA55831",

"XXA65833",

"XXA75834"

],

"jobNumber": 100000,

"fileName": "XXXXXX20211021235044.xml",

"fileId": 99999,

"fileDateTime": 1634860244000,

"receivedDateTime": 1634922275533,

"process": "TRANSACT",

"transmitterId": "XXX",

"retailerId": "RETAILERID",

"plantName": "XXX1",

"totalStoreCount": 2,

"totalOfferCount": 21,

"totalRecordCount": 27,

"totalCouponCount": 166,

"totalFaceValueAmount": 445.58

}

* Read in the document from a file
* Find and print:
* The Payee ID value
* Any invoices that contain the text “583”
* Change any date/time fields to text in the format ‘%Y-%m-%dT%H:%M:%S’
* Hint: The format of the date/time fields are *integer timestamp*. To create a datetime object from an *integer timestamp*, use the following:

datetime\_obj = datetime.datetime.fromtimestamp(*integer\_timestamp* / 1e3)

* Write the json document back out to a new file