

Atrina Interview questions - Data Science(Python Developer)

:

1.# given

```
a = [{'id': 1, 'name': 'A'}, {'id': 2, 'name': 'B'}, {'id': 3, 'name': 'C'}]
```

generate variable b from variable a which should be a list of 'id's

generate variable c from variable a which should be a tuple of 'name's

sample output

```
# b = [1, 2, 3]
```

```
# c = ('A', 'B', 'C')
```

2.. Q1. # given

```
a = [{'id': 1, 'name': 'A'}, {'id': 2, 'name': 'B'}, {'id': 3, 'name': 'C'}]
```

generate variable b from variable a which should be a list of 'id's

generate variable c from variable a which should be a tuple of 'name's

sample output

```
# b = [1, 2, 3]
```

```
# c = ('A', 'B', 'C')
```

3. Class ,object

4. Inheritance

5. Exception handling with example

6. method overloading with example

7. Explain OOPS in Python?

8. Concepts or Pillars of OOPS in Python? With examples and give syntax for each

9. Explain Try and Except block and Give syntax of it.

10. What are classes and objects in python? and show syntax.

11. What is method overriding give syntax

12. What is method overloading give syntax

13. Explain Polymorphism with syntax

14. In Polymorphism, how can we access the function parent class from child class show example or syntax

NSEIT (DATA ANALYST)

- ❖ what is django
- ❖ Django architecture
- ❖ Signals
- ❖ Cache
- ❖ Orm
 -
 -
 - 1---> primary key and Foreign key.
 - 2---> can we use null key in Foreign key or primary key.
 - 3---> what is constructor? how we define a constructor.
 - 4---> what is a destructor?
 - 5---> difference b/w list, tuples.
 - 6---> indexing in SQL
 - 7---> oops.
 - 8---> abstraction.
 - 9---> encapsulation.
 - 10--> multilevel inheritance.
 - 11--> multiple inheritance.
 - 12--> what is slicing?
 - 13--> dataframe(pandas, numpy)
 - 14--> polymorphism.
 - 15--> overloading.
 - 16--> overriding.
 - 17--> iterators.
 - 18--> string is mutable or not?
 - 19--> difference b/w mutable and immutable
 - 20--> what is public, private, protected.
 - 21--> which type of language is python?
 - 22--> why is python interpreted language?

Optimus Apps (Java Developer)

- 1.what is java
- 2.what is oops
- 3.what is class & object
- 4.Data types.
- 5.Wrapper class
- 6.interface
- 7.Wrapper class
- 8.what is collection
- 9.what is overloading & overriding

Vyom Labs (Data Science)

- What is tuple? Where we used
- What is router and switch
- Did u know any scripting
- How to insert data in a table after creating table(they give a scenario)
- Tell some linux command
- Did u know about various types of operating system
- What is scaling
- What is local variable and global variable
- What I use in ML project
- Where I use sql in my project
- Why python use AI and Machine learning with a real world example
- What are the projects you have done?
- What are different data types in Python?
- What is oop?
- What are the main pillars of oops?
- What is abstraction?
- What is polymorphism?
- What is class?
- What are modules and packages?
- What is an access point in python?
- What is sets?
- What is python and what are its benefits?
- What is Slicing in python
- Why use File handling
- What is Dictionary
- Why use Database in SQL
- What is DCL,DML

- How you measure 4L from 3L flask and 5L flask
- Infrastructure client side and server side
- Task sheduler
- Operating system info
- what is tuple with one example
- Server side and client side
- javascript how to use in website
- how task sheduler work
- what is tuple with one example
- JavaScript on client side
- Different operating system

Diacto (Data Analyst)

- Are you passionate about data analytics?
- Do you know the ETL process?
- About yourself and family
- Have you worked on Dashboards- Power BI/Tableau etc.
- What is visualization and data analytics?
- How does data analysis help in a business firm?
- How much are you ready to work in this stream as you have good experience in another stream?
- Based on Projects.

Lumina Datamatics (Data Analyst)

- Explain projects in power bi
- Sql Queries such as max salary, fetch top records, group by, joins
- How to load data into power bi
- What is RLS
- Calculated columns and measure
- Dax functions

Sequel Strings (Data Science)

- what is dictionary
- what is list
- what is tuple
- why tuple is take less time and list more
- what is anagram number explain it
- How we use anagram using dictionary

Questions based on Program:-

```
def compare(a, b, c):  
    if int(a) == int(b) or int(a) == int(c) or int(b) == int(c):  
        return True  
    else:  
        return False
```

```
# Check the compare function  
print(compare(1,1,2)) # True  
print(compare(1,2,2)) # True  
print(compare(1,2,1)) # True  
print(compare(1,2,3)) # False  
# Bonus  
print(compare(6,5,"5")) # True
```

Write a function for checking the speed of drivers. This function should have one parameter: speed.

If the speed is less than 70, it should print "Ok".

Otherwise, for every 5km above the speed limit (70), it should give the driver one demerit point and print the total number of demerit points. For example, if the speed is 80, it should print: "Points: 2".

If the driver gets more than 12 points, the function should print: "License suspended"

```
def check_speed(speed):  
    if speed <= 70:  
        return 'Ok'  
    elif speed >= 70:  
        points = (speed - 70) // 5  
        print('points = {}'.format(points))  
        if points >= 12:  
            return 'License suspended'
```

```
check_speed(80)
```

```
points = 2
```

Python Homework Assignment #8: Input and Output (I/O)

Details:

Create a note-taking program. When a user starts it up, it should prompt them for a filename.

If they enter a file name that doesn't exist, it should prompt them to enter the text they want to write to the file. After they enter the text, it should save the file and exit.

If they enter a file name that already exists, it should ask the user if they want:

A) Read the file

B) Delete the file and start over

C) Append the file

If the user wants to read the file it should simply show the contents of the file on the screen.

If the user wants to start over then the file should be deleted and another empty one made in its place.

If a user elects to append the file, then they should be able to enter more text, and that text should be added to the existing text in the file.

Extra Credit:

Allow the user to select a 4th option:

D) Replace a single line

If the user wants to replace a single line in the file, they will then need to be prompted for 2 bits of information:

1) The line number they want to update.

2) The text that should replace that line.

"""

import os

```
filename = input("Please enter the filename: ")
```

```
# Here we check if the file exists
```

```
if os.path.isfile("./" + filename):
```

```
    print("Looking for file {}".format(filename))
```

```
    print("Found it!")
```

```
    action = input(
```

```
        "What would you like to do with the file?\nPossible actions are: read, delete, append, replace\n")
```

```
    if action == "read":
```

```
        print("The content of the file:")
```

```
        with open(filename, "r") as read_file:
```

```
            print(read_file.read())
```

```
    elif action == "append":
```

```
        text = input("Please enter your note: ")
```

```
        with open(filename, "a") as append_file:
```

```
            append_file.write(text + "\n")
```

```
    elif action == "delete":
```

```
        os.remove("./" + filename)
```

```
        print("{} have been deleted.".format(filename))
```

```
# I don't think it makes sense to create a new empty file right after deletion...
```

```
# Anyway, this is the requested task so here it is
```

```
        with open(filename, "w") as write_file:
```

```
            write_file.write("")
```

```

elif action == "replace":
    line_num = int(
        input("Please enter the line number for the replacement: "))
    text = input("Please enter your note: ")
    with open(filename, "r") as read_file:
        lines = read_file.readlines()
    with open(filename, "w") as write_file:
        for idx, line in enumerate(lines):
            # print(idx, line)
            if idx == line_num - 1:
                print("Line num {} needs to be replaced!".format(line_num))
                write_file.write(text + "\n")
            else:
                print("Writing {}".format(line))
                write_file.write(line)

else:
    print("Sorry, unrecognized action 😞")
else:
    print("Nope, this file does not exist, I'm going to create it for you! 😊")
    text = input("Please enter your note: ")
    with open(filename, "w") as write_file:
        write_file.write(text + "\n")
@baba-keren
baba-keren comm
import os

filename = input("Please enter the filename: ")
# Here we check if the file exists
if os.path.isfile("./" + filename):
    print("Looking for file {}".format(filename))
    print("Found it!")
    action = input(
        "What would you like to do with the file?\nPossible actions are: read, delete, append,
replace\n")
    if action == "read":
        print("The content of the file:")
        with open(filename, "r") as read_file:
            print(read_file.read())
    elif action == "append":
        text = input("Please enter your note: ")
        with open(filename, "a") as append_file:
            append_file.write(text + "\n")
    elif action == "delete":

```

```
os.remove("./" + filename)
print("{} have been deleted.".format(filename))
```

- ❖ What is tuple? Where we used
- ❖ What is router and switch
- ❖ Did u know any scripting
- ❖ How to insert data in a table after creating table(they give a scenario)
- ❖ Tell some linux command
- ❖ Did u know about various types of operating system
- ❖ What is scaling
- ❖ What is local variable and global variable
- ❖ About project
- ❖ What I use in ML project
- ❖ Where I use sql in my project

MobiTrail India Pvt Ltd

- Why is python better than other languages?
- Difference between flask and django
- Difference between list and tuple
- How django works
- Recent version of python
- Why settings.py is use django
- Components of settings. py
- How can we connect database in django and flask
- Find no. Of vowels in a string
- Count of prime numbers in a list
- Exception example

JASH Data Science

- find out second-highest value from list
- difference between foreign and primary key
- create table employee(id, frame, lname, date of joining) and department (ID, name)
- In the employee table to which column we can apply the primary key.
- What is a unique and foreign key?
- Write a query to get an ename whose date of joining is greater than 2020.
- Write a query to display unique department id of Employee

Mystro

1. Tell about your projects
2. What is flask?
3. What is api?
4. Suppose if I have a string and I want to print it twice in a single line how will I do it ?
5. What are generators?
6. Difference between Django and flask and why do we prefer flask over django.?
7. What is pip?
8. Given is list convert it to set.
9. Explain list and tuple
10. What is an object?
11. What is init?
12. What are decorators
13. What is api?
14. What are modules
15. What are packages?
16. What is the database and how to insert data in bulk ?

Network Components Pvt Ltd

- 1) introduction
- 2) final year project
- 3) what is html and css why used?
- 4) draw circle and rectangle
- 5) tag in html
- 6) what is prime number
- 7) prime number program
- 8) what is java and features of java
- 9) what is string and their features
- 10) what is interpreted
- 11) why java is different in other language
- 12) what is platform independent
- 12) what is difference between html and html file
- 13) number logic
- 14) Reverse string without using inbuilt function

FEAT SYSTEMS QUESTIONS

1. Fullname="dhanashree mhase"
Print firstname and lastname using string functions
2. Print pattern


```

1
2 3
4 5 6
7 8 9 10

```
3. Print pattern


```

1 * * *
2 3 * *
4 5 6 *
7 8 9 10

```
4. Enter percentage
And print grade A if percentage -60-100
Grade B if percentage= 40-60
Grade C below 40 percentage
5.
List= ["10","abc","20", "30","pqr"]
Add numbers From list. Output= 60
- 6.If a="10"
B="20"
Calculate sum of a and b using type conversion.
7. What is Data Type
8. what is looping
9. difference between while loop and for loop
10. difference between List and Tupal
11. what is operater
12. what is string
13. what is array
14. difference between or not
15. what is logical operater
16. difference between float int string

CAREER GIBOTS QUESTIONS

- 1.What is NUMPY
2. What is ARRAY
3. What is MULTIDIMENSIONAL ARRAY
4. What is FOR LOOP and its uses
5. Distinguish between LIST & ARRAY
6. What is Python and its features in details
7. Define Function

8. What is anonymous function

QUANTUMLINK COMMUNICATION PVT LTD (QLC) QUESTIONS

1. What is exception?
2. Difference between exception and error?
3. What is abstract class?
4. What is hashset, hashmap?
5. Define Break and Continue?
6. What is reverse string program?
7. How to delete row from table in SQL? Write Query.
8. How to achieve encapsulation?
9. difference between Serialization and deSerialization.
10. What is array list ?
11. Query for 2nd highest salary.
12. Write program to achieve all oops concepts in one program?
13. Print 10 to 1 numbers program?
14. Define file handling?
15. Difference bwtween Eterators itarable comparable comparator
16. What is nullpointer exception
17. What is the default value of string
18. What is string buffer and string holder
19. What is super and this
20. What is thread?
21. What is synchronize and non synchronize
22. Array list and array map
23. Interface
24. Define for loop while loop and do while
25. What is static method
26. How to add two string
27. What is custom exception and how to create it
28. Difference between throw and throws
29. What is iterator?
30. Define heap memory and stock memory
31. What is string pool?
32. Difference between float and int
33. Features of java?

VERIFICIANT PVT LTD QUESTIONS

1. Python =oops concept, constructor, destructor, what is python, loops in python, for loop python program doing with screen share
2. Django=what is Django, ORM
Sql= primary key, foreign key example, difference between primary and unique, where clauses query

Python :

What is loop

Explain do while loop

For loop (program)

Explain Dictionary (Program) and update dictionary

Slicing (program)

What is function

Program on function

Inheritance

Constructor

SQL

What is unique key

Diff Primary key vs unique key

Join

Foreign key

What is HTML

Style property for applying color

JavaScript

Button

Alert

Django

Command to show all used query

What is django

What is ORM

Edit/ Delete

What is Github

Difference between github and Google drive

Aptitude Question related water in tank(calculation in related liter

ANGULAR MINDS QUESTIONS

PRINT QUERY FOR

Prime number or not?

Pattern printing

12345

23451

34512

45123

51234

**

1234

1234

1234

1234

**

1

01

101

0101

10101

+

+

+

+

+++++++

+

+

+

+

NJ GROUP REFERENCE QUESTIONS

Introduction

Tell us about the company

Did you know thw job role

Can you relocate

Array and Array list difference

disadvantages of array

can i write try block without a catch

types of access modifiers

example or use of access modifiers

hierarchy of exceptions

what is data base

how to connect job application in data base

what is HTML

How to create hyperlink in html ehich tag is used to create hyperlink in html

which collection is used to get unique data

array index out of bound exception

what is null pointer exception

features of java

WHARF STREET STRATEGIES QUESTIONS

1. Explain Your project.
2. What Supervised and unsupervised learning
3. Supervised and unsupervised learning difference
4. Logistics Regression
5. KNN
6. What is k mean clustering?
7. What does k stands in K mean clustering
8. What is type 1 and type 2 error
9. What is discussion tree
10. What is discussion tree terminology
11. Define and explain Linear regression
12. What is Hypothesis testing
13. (a/b) testing in hypothesis testing
14. Resample in ML

15. What is joint and its type
16. What is inner joint and outer joint
17. random forest and naive bayes difference
18. Define Accuracy
19. How to find accuracy
20. precision vs recall
21. What is precision
22. What is recall
23. What is confusion matrix
24. What is the role of k in k mean clustering

Godeskless Interview Questions

1. Write a program to eliminate duplicates characters in string on notepad...
 2. Copy that program and run on eclipse and explain it.
- Then mainly questions were focus on my two projects and Spring-Boot
3. Explain MVC model
 4. What are beans
 5. Which template engine you use..
 6. Is it use in static folder or template folder
 7. Which databases you handle until now.
 8. Explain rest API
 9. How you call APIs in Spring-Boot tool
 10. How to deploy projects on server
 11. Give examples of Cloud services
 12. Explain your projects
 13. Explain servlet life cycle
 14. Tell me any jsp tags use in your projects..

FICTION 2 FACT INTERVIEW QUESTIONS

1. What is the summary of project
2. In the project can you satisfy the assumption of regression model
3. What is logistic regression
4. Questions on project

TUDIP INTERVIEW QUESTIONS

how to get length of an array in node
array length in js
count in array in javascript
count in javascript array
length of element in array javascript
checking the length of a list javascript
array length check in javascript
array len javascript
javascript array size vs length
js array length
count array javascript value
how to check length of array in javascript condition
get the number of dimensions of an array javascript
get the length of an array js
how can we count the length of array javascript
js array length
js get length of array
get len array js
javascript array number of elements
array length js
return number of items in array js
get list length javascript
find array length js
how get count of array in javascript

ZINE ONE INTERVIEW QUESTIONS

Define MY SQL
Difference between MY SQL and MS SQL
Define python
Uses of python
What are Data types in python
difference between mutable and immutable data type
What is pandas
What are the different ml concepts
What is overfitting and how can we avoid it

INCENTIOUS INTERVIEW QUESTIONS

What is function in python

What is library in python

What is orderby in SQL

What is delete and truncate in SQL

There are 3 people A B C

A is 2 years elder than B

B is twice old as C

B's age =?

A man eats 100 apples in 5 days eating 5 more apples per day how many apples he ate on first day

Merkle Sokrati INTERVIEW QUESTIONS

1)Introduction

2)Project expalination

3) Logic: if u have 95% FP values . & You have 5% a Tp rate the in this condition how we deal it

.

& Which performs matrix u choose .

4) What Is True positive rate& false positive rate .

5) what is regularization.

6) how can we reduce overfitting..

7) Gestimate question.

8) logical question.

For ex. Cut the circular cake in 8 equal pieaces by using only 3 cuts.