**INTERVIEW RELATED QUESTIONS**

**Python :**

* What is an instance variable
* How to change a class variable
* Write code to parse query string

**On Data structures**

* Difference between list, dictionary, tuple, set
* How to sort a list of tuples based on the 2nd element of tuple
* Can we asign new element to tuple"
* How to get mirror image of binary search tree? (Algorithm)
* What is time complexity?
* Sort time complexity as per the speed for following
  + Constant
  + Exponetial
  + Polynomial
  + Factorial
  + Logarithmic
  + None"
* Data Structure in Python   
  When to use list, dictionary and tuple   
  Lambda function (Map Reduce and Filter implementations)   
  Iterator and Generator ( Difference and Fibonacci implementation using both)   
  Range Vs Xrange   
  Call by reference and call by value   
  Object oriented programming through python(a brief)   
  Multiple constructor for a single class (possible or not and why )   
  Overloading and Overriding concepts   
  File handling in python   
  Decorators in python   
  Super (where and why to use)   
  Regular expression   
  Session and cookies   
  MVC architecture   
  Mysql Indexing   
  Update and join concepts in mysq
* "- Find the second largest element in a one dimensional array in one iteration- Print the binary tree as per breadth first traversal scheme. Try to print one row of the tree in reverse order- Find all the numbers in a one dimensional array which are sum of another two elements in the same array"

**Puzzles / Analytical Questions.**

* Puzzle related to Link list,
* Find the only least weight balls among a group of balls .
* Selection of products from a catalog, where selection probability is proportional to the relative price of the products?
* How many eggs to be broken to check the minimum floor where an egg is broken on 100 storey building?"
* How comfortable you will be able to manage the team and give example how you are doing this with you present role in current project.
* Team model and involvement
* How often you speak to your offshore..
* There are 9 balls. Each one is of same size and same color but one of the ball weight is slightly less or more than the remaining ones. Using one balance figure out the ball having different weight in minimum balancing iterations.
* There are 8 match sticks laid in front of you. You have to make four pairs of them. Here are the rules.

Every match stick must move 2 match sticks before becoming part of pair. If there is a pair in front of a match stick, it can directly become pair with the matchstick after the pair.You have different products with different market prices. Write an algorithm which returns one of the products based on the probability of market price"

**JAVA:**

OOPs Concept  
there are 4 oops concept  
1.) Encapsulation  
2.) Abstraction  
3.) Inheritance

4.) polymorphism

then starts java  
there are classes from where we start

that is String, StringBuffer, StringBuilder  
exp these and their diff  
then come Collection interface  
mostly this is where most of the question are asked  
to implement data structure u have to Use Collections

Collection is very imp  
and then Threads !!  
and then JDBC  
synchronization  
that is data base connectivity

their drivers,, and features  
and comes Advace JAVA that is J2EE  
in that Servlet and JSP

mostly these are the topics in JAVA  
and then Frameworks  
it depends which framewrk that candidate have exp on

Sorting, Searching , Array, LinkList, Stack , Queue, Deque in DS & ALGO

Java Questions were related to Collections, Map, Link Lists,

Puzzle related to Link list,