Awone + Carelon Interview Questions

ROUND 1:

1. Give a brief introduction about your work at futurense
2. What projects have you worked on (explain)
3. What are different Azure Resource/Services (DE azure services)
4. What are higher order functions
5. What is an abstract class
6. What are decorators
7. What is the difference between global and local variables
8. Given data in json format, list all the keys of the json file. Also list keys if it is nested json (python)
9. Write a python logic for bubble sort. Explain your solution

ROUND 2:

1. What are your roles and responsibilities and day to day activities at the company
2. Give a brief idea about your tech stack
3. What is your knowledge on big data
4. What is the difference between rank and dense rank. Give a real time example
5. What is spark
6. What is stateless programming in python
7. Difference between functional programming and OOP
8. What do you mean by lazy evaluation (transformations)
9. Given a table below List all employees who have salary greater than their managers  
   |id|name|salary|managerId|  
   |1|Joe|70000|3|  
   |2|Henry|80000|4|  
   |3|Sam|60000|NULL|  
   |4|Max|90000|0|   
   |5|Shaen|70000|7|   
   |6|Mary|80000|8|  
   |7|Rude|20000|4|  
   |8|Paul|72000|1|
10. Write a program to get square of nos.in a list using lambda
11. Given a table below   
    **FROM,TO,DIST  
    SEA,SF,300  
    CHI,SEA,2000  
    SF,SEA,300  
    SEA,CHI,2000  
    SEA,LND,500  
    LND,SEA,500  
    LND,CHI,1000  
    CHI,NDL,180**  
    Get the below output  
    Output:  
    **SEA,SF,600,Shuttle  
    CHI,SEA,4000,Shuttle  
    SEA,LND,1000,Shuttle**Give the solution in spark (solved using spark sql)
12. What is a data lake
13. Difference between data lake and data warehouse
14. What is map function in python
15. Is it similar to mapper in MR job
16. Like reducer in MR do we have a reduce function in python
17. What is lambda function why do we use it
18. Why do we use map with lambda
19. What are the 5 Vs of Big Data
20. What is the difference between veracity and value