**Interview Questions: Set 4**

1. What is the difference between StringBuffer and StringBuilder?
2. What do you mean by String is immutable?
3. Does String s=”something” and String s=new String(“Something”) are same?
4. What do you understand by String pool and how it works?
5. What is thread to you?
6. What are the different ways to create threads?
7. What is relationship between Runnable and Thread class?
8. What should you prefer using Runnable or Thread?
9. In what way the threads are getting stored in memory?
10. What is the significance of the start() method?
11. Can you invoke the run() method explicitly?
12. Explain the lifecycle of thread.
13. What is the thread schedular? Who decides which thread is executed?
14. How to set up the priority for the thread?
15. What is the default thread ?and what it its priority?
16. What is intrinsic and extrinsic locks?
17. What are examples of extrinsic locks?
18. What is synchronized methods and synchronized block?
19. What is the difference between the normal synchronized method and the static synchronized method?
20. What is the use of join method?
21. If I invoke the wait() method without notify() what will happen?
22. How does the wait, notify and notifyAll works?
23. Is multithreading and parallelism is same?
24. What are the types of Executors?
25. What is difference between the submit() and execute() method?
26. What is ForkJoin pool? And how to implement it?
27. Give any practical example of synchronization.
28. What is thread dead lock?

**Exception Handling**

1. What is difference checked and unchecked exception?
2. Which is the parent class for Exception hierarchy?
3. What is the significance of throws keyword?
4. Can I use finally without catch?
5. Can I use try without catch?
6. How can we handle the exceptions generically?
7. How to create user defined exception?
8. How to handle exception?
9. If we use the finally block without the catch block, what happens if the exception is thrown by the try the block?
10. What is try with resource? Which resources I can use while I work with this concept?
11. What happens the try and finally block execute different boolean values?
12. What happens to try block if the finally block returns some value?
13. Can we use throws keyword with un-checked exception?
14. List out different exceptions that you have come across during your entire training.