Abdullah Ismail Ansari
ab20408579@wipro.com

Interview recording :

https://wipro365-
my.sharepoint.com/:v:/g/personal/ha20376980_wipro_com/EbnibN9Deq9Pv52WPjrvoNwB
KUf1qPg-VZ5XzD1v24OAeg

Questions asked in interview:

1. **Can you tell me about yourself?**
   I am Abdullah from Kanpur, UP. I have completed my graduation in Electronics and
   Communication Engineering from PSIT Kanpur in the year 2022.
   I have joined Wipro as a Project Engineer on July 2022.
   I have completed three months of Java Full Stack training with Wipro and did several
   projects and uploaded them on GitHub.

2. Have you done any certifications?
   I have earned Hackerrank Certificates in Problem Solving (Basic), Python (Basic) and
   Java (Basic)
   I have completed LinkedIn Python programming assessment.

3. Have you done any projects in your academics?
   Several mini projects in Python as it was our academic subject.

4. What is Java? Tell me about some features of Java.
   Java is a high level programming language which enables us to solve problems
   programmatically and develop web and mobile applications. It is robust and platform
   independent.

5. What is JVM, JDK and JRE?
   JVM – It's an acronym for Java Virtual Machine and as the name suggests it provides
   runtime environment in which java bytecode can be executed.
   JDK – JDK or Java Development Kit is a tool to software that we need to install in our
   machine in order to run Java programs. It contains Java libraries.

6. What are Java Classes and Objects?
   Classes can be seen as blueprints that we need to create actual real life objects.
   Objects are made from classes.
   Classes contains methods and variables that can be visualized as attributes of the
   Objects.

7. What is method overloading and method overriding?
   Method overloading allows the method to have the same name which differs on the
   basis of arguments or the argument types.

In method overrinding we can have different methods with the same name but with different parameters

8. What is a constructor?
   Constructor is a method used to initialize a newly created object from a class.

9. Difference between interface and abstract class?
   Abstract class can have abstract and non-abstract methods but Interface can have only abstract methods only.

10. What are access modifiers?
    There are four types of Java access modifiers, i.e., public, default, protected and private and they specify the scope of a variable, method, constructor, or class.

11. Java String and different ways to initialize a string.
    Java Strings are a sequence of characters. Different ways to initialize Strings in Jave are:
    String str1 = new String("Hello Yahoo!");
    String str2 = "Hello Yahoo!";

12. Is String a class or a method?
    String is a class.

13. Methods present in String.
    These are some common methods present in String:
    charAt()
    indexOf()
    length()
    concat()
    endsWith()
    startsWith()
    equals()
    replace()
    replaceAll()

14. Difference between String Builder and String Buffer.
    String buffer and StringBuilder both are mutable classes which can be used to do operation on string. String builder is faster than StringBuffer.

15. Exception handling in Java.
    By using exception handling in Java we can handle the runtime errors so that the regular flow of the application does not get disturbed.

16. Types of exceptions and their hierarchy.
    Throwable -> Exception -> IOException/ClassNotFoundException/RuntimeException
    RuntimeException -> ArithmeticException/NullPointerException etc.

17. What is Spring and what are its features?
Spring is an open-source application framework. It helps us to create high performing applications using plain old Java objects (POJOs)

18. What is Spring MVC?
Spring MVC Framework follows the Model-View-Controller design pattern. It is used to develop web applications. It uses DispatcherServlet for request and response.

19. Difference between Spring and Spring Boot.
The key feature of Spring is dependency injection and for spring boot it's autoconfiguration, with the help of Spring Boot Framework developers can reduce development time, Developer Effort, and increase productivity.
Spring Boot framework is mainly used to develop REST API's. Nowadays we mostly use Spring Boot.

20. Write a program to print Fibonacci series using recursion.

```java
class Fibonacci{
    public static void main(String args[])
    {
            int n1=0,n2=1,n3,i,count=10;

            System.out.println(n1);
            System.out.println(n2);

            for(i=2;i<count;++i)
            {
                    n3=n1+n2;
                    System.out.println(n3);
                    n1=n2;
                    n2=n3;
            }

    }
}
```