

CDAC Mumbai PG-DAC AUGUST 24

Assignment No- 3

Note: Write down this Interview questions & answers in your notebook .take a screenshots ,make word file & upload on Github.

- 1) Explain the components of the JDK.
- 2) Differentiate between JDK, JVM, and JRE.
- 3) What is the role of the JVM in Java? & How does the JVM execute Java code?
- 4) Explain the memory management system of the JVM.
- 5) What are the JIT compiler and its role in the JVM? What is the bytecode and why is it important for Java?
- 6) Describe the architecture of the JVM.
- 7) How does Java achieve platform independence through the JVM?
- 8) What is the significance of the class loader in Java? What is the process of garbage collection in Java.?
- 9) What are the four access modifiers in Java, and how do they differ from each other?
- 10) What is the difference between public, protected, and default access modifiers?
- 11) Can you override a method with a different access modifier in a subclass? For example, can a protected method in a superclass be overridden with a private method in a subclass? Explain.
- 12) What is the difference between protected and default (package-private) access?
- 13) Is it possible to make a class private in Java? If yes, where can it be done, and what are the limitations?
- 14) Can a top-level class in Java be declared as protected or private? Why or why not?
- 15) What happens if you declare a variable or method as private in a class and try to access it from another class within the same package?
- 16) Explain the concept of "package-private" or "default" access. How does it affect the visibility of class members?