**Module 4: Inheritance**

* Inheritance basics, Use of Super Keyword
* Different types of Inheritance, Single, and Multilevel, Hierarchical
* Method overriding
* Runtime Polymorphism: Dynamic method dispatch
* Abstract class
* final keyword

1. Write down different uses of super keyword.
2. Case based - Single, and Multilevel, Hierarchical inheritance
3. What is method overriding?Illustrate this with an example. (case based)
4. Write differences between method overloading and method overriding.
5. What is dynamic method dispatch? Illustrate this with an example. (case based)
6. What is abstract class? Illustrate this with an example. (case based)
7. Write down different uses of final keyword.

**Module 5: Interface and Package**

* Interface
* Package, access control mechanism
* Dynamic Method lookup
* Nested Class

1. What is interface? (case based)
2. Write down differences between interface and abstract class.(6)
3. What is package? What are different types of packages.
4. Which type of inheritance is not supported by Java?
5. What are different access specifiers present in Java? Write down uses of those.
6. What is dynamic method lookup? Illustrate this with an example.
7. What is nested class ? What are different types of nested class?

**Module 6:Exception handling**

* Java Exception handling mechanism
* Exception types, try, catch, throw, throws and finally.
* Built in Exceptions: Checked and Unchecked Exceptions
* User defined exception

1. What is exception in Java? What are different types of exception in Java?
2. What are the uses of getMessage() and printStackTrace() methods?
3. Which class is the super class of Exception class?
4. Practice - uses of try, catch,throw throws and finally (Write uses)
5. Write down differences between throw and throws.
6. Case based (User-defined exception)