**Day 9: 28-10-2025:**

**Java 8:**

1. From Java 8 onward interface can contains method with body. But we need to use default or static keyword with those methods.
2. if interface contains default as well as static method with body. You no need to override those method means no need to provide the body. If you want you can override default method but you can’t override static methods.
3. If more than interface contains same method body with different logic and the class which implements that interface need to override mandatory.
4. Functional interface: the interface which contains only one abstract method. it can contain more than one static as well as default it must be contains only one abstract method that type of interface is known as functional interface.
5. Marker interface: the interface doesn’t contains any method means no method that type of interface is known as marker interface. Example Serializable or Cloneable or Remote etc.
6. Lambda expression : Before Java 8 Java was known as object oriented and procedure language. But From Java8 onward with help of lambda concept we can say Java also functional programming language

(the language which support nested function as well as function chaining concept is known as functional programming language).

Using lambda expression is like an anonymous method.

With help of lambda we can provide shorted format of code for method. if you want to achieve the lambda expression we need interface with only one abstract method ie functional interface.

Lambda syntax

InterfaceName referenceName = (parameterList)->expression;

It return the result or expression without return keyword with method signature.

Inner classes: class within another class

1. Non static inner class or instance type property (number of copies of object)
2. Static inner class or static type property (one copy
3. Anonymous inner class
4. Local method inner class