**Day 4: 20-10-2025: OOPs concept**

**Polymorphism:** One name many forms or many implementation

2 types

1. Compile time polymorphism or static binding or early binding:

Method overloading: Method have same name and different parameter list (number of parameter list or type of parameter list must be different).

1. Run time polymorphism or dynamic binding or late binding:

Method Overriding: Method have same name and same method signature (number of parameter list, type of parameter list, and number of parameter list must be same with different logic inside a method).

**Annotation:** annotation is known as meta-data. Meta-data means data about data. Java provided lot of pre defined annotation. Few annotation we can use on class level or method level annotation or property/variable annotation.

Core java provided one the basic annotation ie @Override. This annotation we can use on method level. If method is overriding we doesn’t get any error else we get the error.