**Day 2: 30 – July 2024 – Core Java**

Polymorphism : One name many forms or many implementation

2 types

1. Compile time or static binding or early binding

Example : Method overloading

The method have same name different parameter list ie type of parameter list or number of parameter list must be different.

1. Run time or dynamic binding or late binding

Example : Method overriding

The method have same name and same method signature ( number of parameter list, type of parameter list and return type must be same).

To achieve method overriding we need mandatory inheritance.

Annotation : annotation is known as meta-data. Data about data. Java provided lot of pre defined annotation as well as we can create custom annotation depending upon our requirement. All annotation start with pre-fix @ followed by annotation name.

We can use annotation on class level or method level or property level or constructor level.

@Override annotation : this annotation we use on method level. If method is overriding compile time we doesn’t get any error. If method is not overriding we can compile time.