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Java: Functional Interface and Lambda Expression

## "Concept && Coding" YT Video Notes

- What is Functional Interface?
- What is Lambda Expression?
- How to use Functional Interface with Lambda expression
- Advantage of Functional Interface?

- Types of Functional Interface?

- Consumer
- Supplier
- Function
- Davidson
- Predicate
   How to handle use case when Functional Interface extends from other Interface(or

}

Functional Interface)?

- What is Functional Interface:
- If an interface contains only 1 abstract method, that is known as Functional Interface. 

  Also know as SAM Interface (Single Abstract Method).
- @FunctionalInterface keyword can be used at top of the interface (But its optional).

@FunctionalInterface
public interface Bird {
 void canFly(String val);

OR

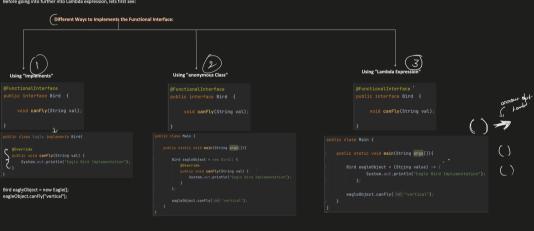
public interface Bird {
 void canFly(String val);
}

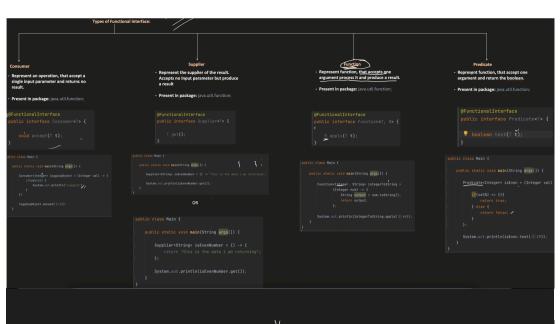


## What is Lambda Expression:

- Lambda expression is a way to implement the Functional Interface.

Before going into further into Lambda expression, lets first see:





```
Handle use case when Functional Interface extends from other Interface:
```

```
public interface LivingThing {
    public void canBreathe();
}

@FunctionalInterface
public interface Bird extends LivingThing {
    void canFly(String val);
}
```

Ise Case 1: Functional Interface extending Non Functional Interface

```
@FunctionalInterface Bird extends LivingThing {

void canFly(String val);
```

## Use Case 2: Interface extending Functional Interface

```
Use Case 3: Functional Interface extending other Functional Interface
```

```
@FunctionalInterface
public interface LivingThing {
    public boolean canBreathe();
}

@FunctionalInterface
public interface Bird extends LivingThing {
    void canFly(String val);
}
```

```
public interface LivingThing {

public boolean canBreathe();
}

@FunctionalInterface
public interface Bird extends LivingThing {

boolean canBreathe();
}

public class Main {

public static void main(String args[]) {

Bird eagle = () > true;
```