**Code Examples**

**Example 1: Declaring an interface**

public interface **Animal**{

public static final int x = 4;

public void move();

}

**Example 2: Declaring an abstract class**

public abstract Bird {

public abstract void move();

public void eat() {

**System.out.println("The bird is eating");**

}

}

**Example 3: Declaring an abstract class in C++**

class bird {

**public:**

**virtual void move() = 0;**

**virtual void eat() {**

**System.out.println("The bird is eating");**

**}**

**};**

**Inheritance**

**Interface: Example 4**

public class Chicken implements Animal, X {

public void move(){

System.out.println("The chicken is walking");

}

}

**Abstract Class: Example 5**

public class Chicken extends Bird implements X,Y {

public void move(){

System.out.println("The chicken is walking");

}

Bird b = new Chicken();

b.eat();

}

**Exercise**

**Exercise 1:**

public xxxxxx Bird {

int count = 3 ; (1)

protected String name; (2)

private int x = 7; (3)

public static int totals; (4)

**public Birds**(String name){ (5)

this.name = name;

}

**public abstract void move();** (6)

**public void eat();**  (7)

**public:**

virtual void f() = 0; (8)

}

}

Fill the numbers that corresponds to the members that are found in these components.

|  |  |  |
| --- | --- | --- |
| **Interface** | **Abstract Class** | **C ++ Code** |
| 1 | 1 | 1 |
| 6 | 2 | 2 |
| 7 | 3 | 3 |
|  | 4 | 4 |
|  | 5 | 5 |
|  | 6 | 7 |
|  | 7 | 8 |
|  |  |  |

References

1. A Concise and Comprehensive Study Guide for the Sun Certified Java Programmer Exam. Paul Sanghera
2. Thinking in Java, 3rd Edition, Beta. Bruce Eckel.
3. C++ Programming from Problem analysis to Problem Design.