Chapter 11 Why Multiple Inheritance not Support in Java by Munawar

Is multiple inheritance allowed in java?

Multiple inheritance face problems when there exist methods with same signature in both the super classes.

Due to such problems, Java does not support multiples inheritance directly but the similar concept can be allowed using interfaces.

A class can implement multiple interfaces and extend a class at the same time.

Note:

- 1. Interface in Java is a bit like the class but with significant difference.
- 2. An interface can only have method signature fields and default methods.
- 3. The class implementing an interface needs to define the methods (not the field).
- 4. You can create a reference of interfaces but not the object.
- 5. Interfaces methods are public by default.

Polymorphism using interfaces

Cell phone GPS Camera Media Player

Smart Phone

GPS g =new Smart Phone ();

Smart Phone s=new Smart Phone ();

Implementing an interface forces method implement.

Source Code

```
void applyBrake(int decrement);
void speedUp(int increment);
void blowHornk3q();
public void speedUp(int increment) {
public void blowHornk3g() {
public void blogHorn() {
```

Thank You