Chapter 11 Interfaces Example and Default Java by Munawar

Default Methods

An interface can have static and default methods Default methods enable us to add new functionality to existing interface.

This feature was introduces in Java & to ensure backward compatibly while updating an interface.

Classed implementing the interface need not implement the default methods.

Interfaces can also include private methods for default methods to use.

Source Code

```
import javax.swing.plaf.synth.SynthTextAreaUI;
import java.util.Scanner;
import java.util.Random;

interface Camera{
    void takeSnap();
    void RecordVideo();

    // we can default method define then do not require to used in class
     default void CapturePicture(){
         System.out.println("default Capturing Picture .....");
     }
     private void privateCamera(){
         System.out.println("Private is not accessible in another class or
main ");
     }
}

interface wifi{
    String [] getNetwork();
    void connectToNetwork(String network);
}
class MycellPhone{
    void cellNumber(int phoneNumber){
        System.out.println("Calling.... "+phoneNumber);
    }
    void pickCall(){
        System.out.println("Connnecting ....");
    }
}
```

```
class SmartPhone extends MycellPhone implements wifi,Camera{
    public  void takeSnap(){
        System.out.println("Taking snap");
    }
    public void RecordVideo(){
        System.out.println("Recording ......");
    }
    public String[] getNetwork(){
        System.out.println("Getting list of Network");
        String[] networkList={"Munawar","Raziq","Kama1122"};
        return networkList;
    }
    public void connectToNetwork(String network){
        System.out.println("Connecting to"+network);
    }
    public void CapturePicture(){
        System.out.println("Please Capture the Picture.....");
    }

}
public class Main {
    public static void main (String [] args) {

        SmartPhone ms=new SmartPhone();
        String[] ar=ms.getNetwork();
        for(String item:ar){
            System.out.println(item);
        }

        ms.CapturePicture();
    }

}
```

Thank You