Krishna Samirbhai Rao (N01687444)

Lab6.java

/\*

\* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

\*/

package com.mycompany.lab6;

/\*\*

\*

\* @author krish

\*/

public class Lab6 {

public static void main(String[] args) {

DeskPhone myDeskPhone = new DeskPhone("Apple", "14-Pro-Max", "647-741-0182", "Personal");

CellPhone myCellPhone = new CellPhone("Samsung", "Galaxy S24 Ultra", "647-9988", 50);

myDeskPhone.call("647-9988");

myCellPhone.sendText("647-9988", "Hola! How are you?");

System.out.println("Current Battery Level: " + myCellPhone.getBatteryLevel() + "%");

myCellPhone.chargeBattery(25); // Charge by 25%

}

}

Phone.java

/\*

\* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

\* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template

\*/

package com.mycompany.lab6;

/\*\*

\*

\* @author krish

\*/

public class Phone {

private String brand;

private String model;

private String phoneNumber;

public Phone(String brand, String model, String phoneNumber) {

this.brand = brand;

this.model = model;

this.phoneNumber = phoneNumber;

}

public void call(String number) {

System.out.println("Calling " + number + " from " + phoneNumber + "...");

}

public void receiveCall(String caller) {

System.out.println("Receiving a call from " + caller + " on " + phoneNumber + "...");

}

}

class DeskPhone extends Phone {

private String location;

public DeskPhone(String brand, String model, String phoneNumber, String location) {

super(brand, model, phoneNumber);

this.location = location;

}

@Override

public void call(String number) {

System.out.println("Desk phone at " + location + " is calling " + number + "...");

}

}

class CellPhone extends Phone {

private int batteryLevel;

public CellPhone(String brand, String model, String phoneNumber, int batteryLevel) {

super(brand, model, phoneNumber);

this.batteryLevel = batteryLevel;

}

public void receiveText(String sender, String message) {

System.out.println("Received text from " + sender + ": " + message);

}

public void sendText(String recipient, String message) {

System.out.println("Sending text to " + recipient + ": " + message);

}

public int getBatteryLevel() {

return batteryLevel;

}

public void chargeBattery(int amount) {

batteryLevel += amount;

System.out.println("Battery charged. Current battery level: " + batteryLevel + "%");

}

}

Output

A screenshot of a computer

Description automatically generated