Islamic University of Technology

Visual Programming Lab

CSE 4402

Lab 2

Author:
Ishmam Tashdeed
Lecturer
CSE, IUT

January 25, 2024

Contents

1 Task 1

Suppose you are an electronic device manufacturing company. Your factories produce different types of devices like: smartphones, smartwatches and smart home devices. Each device has a name, price and a model number. The model number is formatted as: `name of the device - serial number`. If the device is a smartphone and it is the first created smartphone then the model number is: `phone - 1`. Every device has a `powerOn()` and a `powerOff()` method. But for each device, the methods should display a device specific message, such as: ``Smartwatch turning on'' or ``Smartwatch turning off''. Some other functionalities are:

- Smartphones have an attribute called phone number and a method `call()` which calls other phones. It takes the phone number of the phone to call as an attribute.

- Smartwatches have a method `checkVitals()` which checks the vitals of the person.

- Smart home devices have a list of devices that they are connected to. They also have a method `listDevices()` to print out all the devices they are connected to.