



Exercise 1

Course: Object Based Programming

Name : SAFRIZAL RAHMAN
Class : 2G SIB
NIM : 2341760151

1. RakServer

State (Attributes):

- Brand
- Capacity
- Number of Servers
- Status
- Location

Behavior (Methods):

- Add Server
- Remove Server
- Check Status
- Move Location

2. iPad

State (Attributes):

- Brand
- Model
- Battery Level
- Operating System
- Screen Size
- Storage Capacity
- Network Connection
- Camera Resolution

Behavior (Methods):

- Turn On
- Turn Off
- Open App
- Take Photo

- Adjust Volume
- Charge Battery
- Connect to Internet
- Lock Screen
- Unlock Screen

3. Monitor

State (Attributes):

- Brand
- Screen Size
- Resolution
- Refresh Rate
- Input Ports
- Power Status

Behavior (Methods):

- Turn On
- Turn Off
- Adjust Brightness
- Change Input Source
- Adjust Volume

4. RJ45

State (Attributes):

- Cable Type
- Length
- Connector Type
- Color
- Shielding

Behavior (Methods):

- Connect
- Disconnect
- Test Connection
- Crimp

5. Nvidia RTX

State (Attributes):

- Model
- Memory Size
- Core Clock Speed
- Memory Type
- Power Consumption
- Cooling Type

Behavior (Methods):

- Render Graphics
- Perform Computations
- Adjust Fan Speed
- Monitor Temperature
- Update Drivers

RakServer
brand: String capacity: int numberOfServers: int status: String location: String
addServer(server: Server): void removeServer(server: Server): void checkStatus(): String moveLocation(newLocation: String): void

iPad
brand: String model: String batteryLevel: int operatingSystem: String screenSize: float storageCapacity: int networkConnection: String cameraResolution: int
turnOn(): void turnOff(): void openApp(appName: String): void takePhoto(): void adjustVolume(level: int): void chargeBattery(): void connectToInternet(): void lockScreen(): void unlockScreen(): void

Monitor
brand: String screenSize: float resolution: String refreshRate: int inputPorts: String powerStatus: String
turnOn(): void turnOff(): void adjustBrightness(level: int): void changeInputSource(source: String): void adjustVolume(level: int): void
RJ45
cableType: String length: float connectorType: String color: String shielding: String
connect(): void disconnect(): void testConnection(): void crimp(): void

NvidiaRTX
model: String memorySize: int coreClockSpeed: float memoryType: String powerConsumption: int coolingType: String
renderGraphics(): void performComputations(): void adjustFanSpeed(speed: int): void monitorTemperature(): void updateDrivers(): void