

# Assignment 0

## 1 Object 1: Mobile Phone

State:

- Brand : Samsung
- Model : Galaxy S21
- Color : Black
- Ram : 8GB
- Storage : 128GB
- Price : ₹55000
- OS : Android

behavior:

- When I press the power button, the mobile switch on
- When touch the screen, the mobile responds like some opening apps
- When the battery is low, the mobile shows a warning

Identity

- IMEI Number : 35421876543

Responsibility

- It should respond quickly when I touch the screen
- It should store data safely,
- It should perform calls clear.

## 2 Object 2 :

State

- Brand : Tata
- Model : Nexon
- color : White
- Seats : 5
- Engine Type : BS6
- fuel : Petrol
- Price : ₹ 12,00,000

Behavior

- When I start car, the engine turns on
- When I press the accelerator, the car speeds up.
- When I press brake the car slows down and finally stops.
- Identity
- Registration number : MH 12 BA 1234

Responsibility

- The car should provide safe travel
- car should start as soon as turn on engine

## Object 3 : Laptop

### State

- Brand : HP
- Processor : Intel i5
- RAM : 16GB
- Storage : 512GB SSD
- Color : silver
- OS : Windows 11

### Behavior

- When I press the power button the laptop starts.
- When I open ~~stop~~ software, the laptop processes data.

### Identity

- Serial Number : HPLAP2026

### Responsibility

- It should work smoothly
- It should start as soon as I press laptop start button.

## Object 4 : Washing Machine

### State

- Brand : LG
- Color : Grey
- Type : Automatic
- Model year : 2025

### Behavior

- When water level increases, washing continues.
- When washing completes, it stops.

### Identity

- Serial Number : LG123489

### Responsibility

- It should wash clothes properly.
- It should automatically after washing is done.

## Object 5 : ATM machine

### State

- Bound : SBI
- Location : Pune
- Cash capacity : ₹ 50,00,000
- Type : Touch screen
- 

### Behavior

- When is insert card it should read it and starts for further processes.
- It verifies the pin.

### Identity

- ATM ID : SBIATM143

### Responsibility

- It should provide secure transactions
- provide protection to user data.

## Object 6 : Television

### State

- Brand : Sony
- Screen Resolution : 4K
- Power : 150 W
- Price : 45 000

### Behavior

- When I change channel, display update
- When I increase volume it should increase it

Identity: Serial Number : SONY TVLCD42S2028

### Responsibility :

- It should go to the specific channel that I choose
- It should respond to remote commands.

## Object 7: Refrigerator

### State

- Brand: Whirlpool
- Capacity: 265L
- Color: maroon
- Power rating: 180W
- Stars: 5

### Behavior

- When power is on cooling starts.
- When door is open, light turns on

### Identity.

- serial no.: WHP00L4326

### Responsibility:

- It should keep food fresh
- It should maintain proper temperature.

DATE

## Object 8: Printer

- Brand : Canon
- Type : Laser
- Color Type : yes
- Paper size : A4

### Behavior

- When print command is given, printing starts.
- When ink is low it gives warning.

### Identity

Printer ID : CANON4897

### Responsibility

- It should print clearly
- Minimize paper wastage

## Object 9: Bicycle

### State

- Brand : Hero
- Type : Gear
- Color : black & red
- Weight : 10 kg

chain & based -  
wheel & gear -  
type & shift nob -  
pedal & seat -

rubber

- Behavior
- If I change gear, speed changes.
- When I apply brake it stops.

### Identity

Frame No : HEROBIC493

### Responsibility

- Provide smooth riding
- Change gear as soon as i change it. properly

## Object ID: Pen

### State

- Bound : ~~toto~~ DOMS
- Color : Blue
- Ink : Gel
- Price : ₹ 20

### Behavior

- When cap is closed, ~~ink~~ ink does not dry
- When ink finish pen stops.

### Identity

- Serial No : 8906073787249

### Responsibility

- It should not leak.
- Provide smooth writing