

Name - Tusharaj Dattatray Vodagere
FRN No:- FRN-14J0725/010

Date:

Assignment - O (OOPS)

Page No.

Roll No.

* Object, State, Behaviour, Identity *

① Object - Object is something which has state, behaviour, identity & responsibility.

State - State is nothing but value given to it's attribute.

Behaviour - Behaviour is nothing but action given to the outside world.

Identity - Identity is related to state which has unique attribute with it's value.

Responsibility - Responsibility is related to behaviour which perform some task.

e.g.

Object name - Fan

State -

no. of blades - 3

Color - Blue

Company - Bajaj

price - ₹ 2000

Serial no - BAJAJ 20F2001

Behaviour -

1. when I switch on button, the fan starts rotating.

2. When I switch off the button, then fan stop rotating.
3. When I rotate the regulator clockwise, the speed of fan increases.
4. When I rotate regulator anti-clockwise, then speed of fan decreases.

Identity -

Serial No - BAJAJ 2001

Responsibility -

1. When I switch on button, fan start rotate.
 2. When I switch off button, fan stop rotate.
 3. When I rotate regulator clockwise, fan speed increases.
 4. When I rotate regulator anti-clockwise, fan speed decreases.
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- X ————— X ————— X —————

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Object name - Student

State -

Name - Kashay Vadagave,

Roll no - 127

Class - 12th

School Name - SGM College Konad

Date :

State -

Age - 20

DOB - 22/05/2005

Attendance - 99%.

Grade - A+

Behavior -

1. When I study, then I gain knowledge.
2. When I attend class, then I learn lessons.
3. When I take exam, then I get grades.
4. When I submit homework, then I get feedback.

Identity -

Roll No - 127

Responsibility -

1. When I study, then I should focus on understanding.
2. When I attend class, then I should ~~practice~~ participate actively.

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Object Name - Car

State -

Color - Black

model - fortuner

Company Name - TOYOTA

Fuel Type - Petrol

Fuel Capacity - 40 lit.

Reg. No - MH11S6222

Behaviour -

1. when I press start button, then car engine starts
2. when I press accelerator then car speed increase
3. when I press break, then car speed slow down.
4. when I turn steering, then car changes dir?

Identity -

Reg. No - MH11S6222

Responsibility -

1. when I start car, then it should start smoothly.
2. when I accelerate, then it should increase speed efficiently.
3. when I brake, then it should stop safely.
4. when I steer, then it should change dir?.

Date :

(4)

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Object Name - Laptop

State -

Brand - Dell

Model - Inspiron 15

Processor - Intel i5

RAM - 8GB

Storage - 512GB SSD

Color - Black

Serial no - DELL2025N0V001

Behaviour

1. When I press power button, laptop turn on.
2. When I close the lid, then laptop goes into sleep mode.
3. When I press keys, then it types characters.
4. When I click the touchpad, then it selects items on screen.

Identity -

Serial no - DELL2025NOV001

Responsibility -

1. When I power on, then it should boot the os properly.
2. When I type, then it should display input correctly.
3. When I use touchpad, then it should respond instantly.
4. When I close lid, then it should save current session safely.

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Object name - Bank Account

State -

AC No - Cash Power
Name - Cash Power
AC No - 1234567890
Bank name - SBI
Balance - ₹120000
Type - Saving
IFSC - SBIN30000244

Behaviour -

1. When I deposit money, then balance will increase.
2. When I withdraw money, then balance decreases.
3. When I transfer funds, then receiver gets money.
4. When I check balance, then it shows updated amount.

Date :

Identity -

AC No - 1234567890

Responsibility -

1. when I deposit, then it should update balance.
 2. when I withdraw, then it should deduct ~~but~~ money from balance.
 3. when I transfer, then it should ensure secure transaction.
 4. when I check balance, then it should display accurate data.

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Object name - Water purifier.

State -

Brand - Kent

Model - RO+UV+UF

Capacity - 8lit

Color - White

Serial no - KENT2025101001

Behaviour -

1. When I switch it on, then water starts purifying.
2. When I press top, then water flows out.
3. When tank is full, then purification stops.

Identity:

Serial no - KENT2025111001

Responsibility -

1. When I switch on, then it should purify efficiently.
2. When I open top, then the clean water should flow.
3. When tank fills, then it should stop automatically.

_____ x _____ x _____ x _____ x _____

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Object Name - Light Bulb

State -

Brand - Phillips

Type - LED

Wattage - 12W

Color - warm white

Voltage - 220V

Serial no - PHILIPS2025LED001

Behaviour -

1. When I switch it on, then it glows.
2. When I switch it off, then it stops glowing.
3. When it overheats, then it dims automatically.

Date :

Identity -

Serial no - PHILIPS 2025 LED 0091

Responsibility -

1. When I turn on switch, then it should light up.
2. When I turn off switch, then it should shutdown completely.
3. When overheated, then it should prevent damage.

(8)

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Object name - Chair

State -

Type - office chair

Material - leather.

Color - Brown

Adjustable Height - Yes

Wheels - 5

Brand - Godrej

Serial no - GOD2025CHAIRNOV001

Behaviour -

1. When I sit on it, then it supports my weight.
2. When I pull the lever, then height adjust.
3. When I roll it, then it moves smoothly.

Identity -

Serial no - GOD2025CHAIRNOV001

Responsibility -

1. When I sit, then it should provide comfort.
2. When I adjust height, then it should lock firmly.
3. When I roll, then it should move easily without noise.

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Object Name - Wall Clock.

State -

Brand - Titan

Type - Analog

Shape - Round

Color - White

Price - ₹ 2000

Serial no - TITAN 2025 MOON CLOCK 001

Behaviour -

1. When I insert battery, then the clock starts ticking.
2. When I set time, then the hands moves accordingly.

Identity -

Serial no - TITAN 2025 MOON CLOCK 001

Responsibility -

1. When powered, then it should show accurate time.
2. When I set time, then it should adjust precisely.

(10)

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Responsibility - It is related to behaviour which performs some actions.

Object name - Book

States -

Title - Datastructure in C

Author - Reema Thareja

Publisher - Oxford University Press.

Pages - 480

Price - ₹ 600

ISBN - 987654321

Behaviour -

1. when I open book, then I can read inform.

2. when I flip pages, then new content appears.

3. when I mark a page, then it saves my place.

Identity

ISBN - 987654321

Responsibility -

1. when opened, then it should convey knowledge

2. when pages flipped, then it should show clear text