Professors
Courses
Core Elective

ejven list of Electric Courses Can't choose one chosen in

o Student com choose preference

· a course given based on their CGPA.

Additional information -> No of students alloted to a subject

1) Student - This clase will store info of students such as their name, Id and elective subjects allowed, from that make sellection about subject he can take

② Professor → This class will contain its name, adress, and list of courses Offered

- 3 Courses class which have the about course Id whether st is elective or core courses.
- @ Electre Courses -> This class will inherit from Courses class and store additional info about electric Course such as but of student who can been the suggest

we need to create addition list in sulject close that store Id of consus student can take

we also need a specific map for stored (student-alloted elettre

Methods · get Student Info () Static methods · get Proffesor To() · get suject Tfo () oget Electre Sulgict 760 () ogetAllotElectiesupot() Instance method · getHumler of Students Alloted To Subject () Inheritance Coroses Elective Courses The Electric Subject Class can inherit from Subject close because on electric Subject is a type of subject. Ans 2 00 11 21 32 42 5 O yzordy 00 11 23 36 410 Q 42 4+2 14=4+2 02 14 25 36 47 8 If (4>4) { 7 7 2 4 - 2 9 \$ To (y<5) { 02 14 36 48 12 34 S9 14656

yzy ta.

Ans 3 The value of each field of gone dryset is

home - NULL; with = NULL; homecone = 0; with Score = 0;

name = NUL; } He restalled as story

recty = NUL

recty = NUL

recty = 0

recty = 0

a) After executing slatements ! Teams Angels and BasketBaslooms Worldsons? two organics have been obclased but no object has been citabled . So only Total 2 objects will be these

was duty to the .

GUI - allows to Control simulation

d) Neither "trigel" Nor" susprid series consume memory at this herist because they are just references not objects.

Heat

Elevator System

Siterulator buck the operation

Duplay of model on Scrun source may view it

System > Elevator shaft
Elevator car

PC-1

closed during try blu flor each floor each floor

IC-I Elevator steats on Ist fait will all dood closed

PCIII Each time a unique person is created that travel in life poston walks across floor to elevator when button powered, it illuminated

Elevator must remember to severet the floor after Carrying the Gravent Passenger to other floor.

The Person, when does not veg elevator remain on Same

. Uses - when pressed 1 - s Create person on first flow When pressed 2 -> Create posion on second flow Cannot Create Uses on if already has used on that flax

· Sound linking PC-VI

1) Reser closs: 808

o Represent person

· Propoeties : Current floor, distinction, inside / not

· methods: more inside elevator; paces button, hous gloor buttom

2) Elwator Class ;

" Repaisent elevator"

· Properties: current floor, pressed floor, empty filled list of pressed button, whether Open/close colouse of button, bound of button sing

· methods: more to a fevor, open door, close door, reset flow faces elevator button.

3) Elevator Shaft Class; shaft, managing blerator · Represent the elevator assurals at floor· methods : notify devalor around, rosal floor huston

## 4 floor class:

- · Represent a floor
- · Propeeries: Ploor NO., list of housed buttons
- o methods: press gloor button, veret gloor button
- 3) AudioPlayer Class.

soundes peaging voorlous audit uses like doss Soundes, bell rings relicks, elevators music

- 6) GUI class.
  - ormplement GUI
  - · Alows the User to interact with simulations
- 7) Similation Controller Clars:
  - · Coordinate the endor simulation
  - o manages the flow of event, upidates the clarator's hardles user input.