Data Types / Instruction Object Oriented Programming flort/house then/string/ Dhat is an object?? an real-world entity Class: collection of a such entity. Student Car - name +model De Calculate the ong. so height of the students? + roll wo atributes + price + marks + color t height Collection of hughts + mileage ! batch array - float

We have to find models : text/str, vy price discount. (millage V discount discourt mile dis

rane [ ] Paradigm - Structural / Procedural - Object-Oriented Functional Pavadigm Objects: - ave some real-world entity
- some complex combination of simple features/advibutes
and functions blue-print/framework for a type of object-Class:

many defferent possible 9 each 1s unique but her some types + name of atwib t price t when milege Class (of cors): name detinition/blue-print of objects price Play mileage Objects are an instance of a class

class Car { String / hame: Drice: int price; un leerge: 20 double un lege; hane Wer-desired 20,00,000

Dynamic Memory Mocation Static/Compile Time farrays, duving compilation

(c. before they are executed) Teap/free-store 4/bytes Is these memory are allocated. a Ubytes when needed asked for mxy Lint arr [m]) + static longues - get some mem (N- sufer) - odynamics dynamicating allowed. Stack

- we can allocate nemory dynamically - we cannot create variables dynamically - We need memory to store an iminstructions
get memory forfint address int \* dint i dint= \* dinDynamic allocation requires two-step: (1) eventing getting the numbery dynamically (address) (2) Storing the address in a pointer dynamically )

get memory

for an int int \* pty; Pty = address \* btr