Clames & Objects

Content

-> Classes & Object concept

-> ODPS x

> Syntax & language agrestic (bocify for Python)

Clan -> It is a blueprint (for objects)

eg floor plan of a house/building

Object > Real instance of a clan

Physical house / building

(aux clan can have multiple objects)

(used to define data) Class Affributes

Methods

(to define functionality)

class Car ?

all inbuty category nucleage

name - Audi Ry

color -> Black

category > sedan

nuileage - 9 & Kupl

Car:

name - BMW

color - Blue

Category -> SUV

ni leage -> 10

drive () {} drine () 93 methody { drive () }}

functionality

music() }}

music() } AC() {1 A(() }} music() 5? musi(1) {} in all sam functionalities objects Student SI E new Student() clan Student & [# 2368] attibutes sint id nam = "Clauray" objed referenu id = 32 of Student Class [# 2368] mercods: (xam() \{\}
bunk() \{\} SI. name = "Ceansay" addren SI, id = 32 Lodot is used to accom a Hisbuter 1 methods SI. Study() Student 52 = new Student() > nam = "Amil"
(d = 2)
(# 1234) 52. name = "Anil" s2. id = 21 Student Sy = S2; - Strat Student 53; [-> NVU] print (sz. nam) -> "Amil" print (S3. navre) Sy. name = "Rahul" La Null Pointer Exception mor print (S2. name) - " Rabul"

int a=2 b=a 0=b+2 print(a)->2 Student S5=S4 S2. nam: "Sagar" print (SS. nam) -> "Sagar"

Student 57 = new Student () _______ name "Sanjary" id = 87. name = SG. name (# 6911)

S7. id = S6. name

print (ST. nam) -> Saujayⁿ
S6. nam - Mkiranⁿ

print (ST. nam) -> "Sanjayⁿ

print (Sb. nam) -> "Kiranⁿ

Duplopy

Quistion 1

(reale a class Rectangle that support following methods:

- 1. Find the area of rectangle
- 2. Check if rectangle is Equal or not?

Class Rectangle 5

ind length, breadth;

Rectangle (x,y) 3

length=x, breadth=y

3 int area() 9

ntuon length & breadth

3 hool is Squarse () 3 return (length == breadth) 3

Rectangle &= new Ratangle (4,6) print (n. arcal)) -> 24

print (r. area()) -> 24

Constructors

Special method used

to initialize the
attributes of a clan
at a time of object

creation.

J

1. Name is some as

2. No return type

Shrotion 2 leinen N rectangles with rangth & preadth in A17 & B17. (Ali), B(i)) -> 1th rectangle find the sum of area of sectongles which are not squar uning Rectangle clam. eg A= [2 5 3 6 2] B= [4 5 6 2] aus 2 (2xy) ~ (3x1) = 8+3=11 n = A. length SUM = 0 for (i=0; i<n; ++1) } Rectangle V = new Rectangle (Ali), Bli) if (!r. is Square()) } sum += v. avea() Using Clam Improver 1. Readability a. Reusability print (sum)

Object Reference juside a clan

clam Node &

int data;

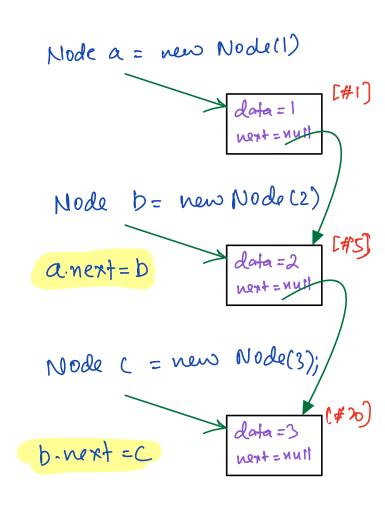
Node next; 110bj reference

Node (int n) &

data = 2

next = null

}



Linked list