	Chapter 11 - Inheritance & more on OOPs
175	Matthe interdence source when the schild does
	Inheritance is a way of creating a new class from an existing class
	an existing class
	C turnilla taunilla t
	Syntax:
	Class Employee: -> Base Class
	# Code
	oo and ada builded
Nei	TAKE NO POLICE THE VIOLET IN THE POST OF A A A SECTION OF THE POST
-	Class Programmer (Employee): → Derived or child class # code
_	
	tale can use the machale and attribute of Frenchise in
	Programment object
	Also we can overwrite or add new off ributes and
	We can use the methods and attribute of Employee in Programmer object. Also, we can overwrite or add new attributes and methods in Programmer class.
	Types of Inheritance
	a to weather at come to make a technic and it
7	Single inheritance Multiple inheritance
, 7	Multiple inheritance
3,	Multilevel inheritance
	Single Inheritance
	Single inheritance occurs when shild class inherits
	only a single parent class
	Base had an had and
	or water the town of the same of the same of
	Derived

Multiple Inheritance Multiple inheritance occurs when the schild class inherite from more than one parent class. Parent 1 Multilevel Inheritance When a child class becomes a parent for another child class Super() method Super method is used to access the methods of a Super class in the derived class Super(). __init__()

Lalls constructor of the base class class methods A class method is a method which is bound to the class and not the object of the class.

Classmethod decorator is used to create a class method

Syntax to create a class method:
Alothon principal
@ classmethod def (cls, p, pz):
def (cls, p1, p2):
def (cls, p1, p2):
Obroberty decorators
Oproperty decorators Consider the following class
Consider the following class
Class Employee:
@ property
@ property def name (self): return self-ename
Vehixm Self-Ename
Other dundar major was though in by those
if P = Employee 1) is an object of class employee
if e = Employee() is an object of class employee, we can print (e. name) to print the ename/call name() function.
and print (C. Marie) to print the charle, can hand function.
@ mtter and @ cetters
The matted against with absolute describes is all anti-
@ getters and @ setters The method name with eproperty decorator is called getter method
We can define a function + @ name setter decorator like below:
We can define a function + 12 maprie seller de constor like
below
O mana c tt
@ name · Setter
def name (self, value): Self. ename = value
def name (self, value): Self. ename = value
def name (self, value): Self. ename = value
def name (self, value): Self. ename = value
def name (self, value): Self ename = value Operator overloading in Python Operators in python can be overloaded using dunder
def name (self, value): Self ename = value Operator overloading in Python Operators in python can be overloaded using dunder
def name (self, value): Self. ename = value

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by thou can be overloaded using the methods: operators in following -> p, -- add - (p) p1 + p2 -> p1 -- Sub -- (p2) p1 - p2 -> p1 -- mul-(b) þ, * þ2 -> p1. truediv - (p2) p. / p2 → p, -- floordiv -- (p2) þ. 11 þ2 Other dunder/magic methods in python __Str__() -> used to set what gets displayed upon calling Str(obj) __len__() → used to set what gets displayed upon (alling. __len__() or len(obj)