Athanna Yadav S23-127 Wuitten Assignment Q

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Exception Handling in Python is managed Mough the use of they, except, else and finally blocks. These blocks enable developes to anticipate. and mange crows that may occur during the me execution of a program, allowing four moun wabust and error transfort code.

exeception is paced institu a truly block.

except block: of on execption occurs in

the truly block; of the glan of execution moves to

the truly block of the glan of exception moves to

the handled. Hull tiple except blocks can rater

algerent types of exeption.

else block: of no exceptions occur within

the try block, the else block is executed.

ofth ginally block: code within the finally

block executes sugardless of whether an

exception occurred making it ideal forg

claning of oreconces one executing took that

Example: Output: you can't dividle by zero!

python

buy:

ordered to the beautiful Europe!

execpt zero primision Euros!

puint ("Pyou can't divide by zero!")

puint ("Dinision successuli")
Finally:

Ruint (Execution complete")

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Polymouphism m fython. Polymonphism in perograming vigers to me ability of different objects to vespond, in this con way, to me same multiper care. In pythong polymouphism can be demonstrated in Several ways: Nithoa overviding: When a subcrass peromider a specific implementation gover a method maris already dyined in its superclass. Duck typing: Pythonis approach to polymorphism where the was of an object is cess important man one methods (attempetes me objects has gas object can "quach" like a du cu, python allows theating it is a duck Example of ruthod out overaiding: , Ruint " some binds can gry. 1): class Panot (Bind): test bind (Bind (1) test bind (Parrot(1) Some binals can yer partots our fly

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Lambda & Amerion in Python:

Lambda Junesion in Python are small ananymous functions defined by the Keywould bambda functions can have any number of organish but only on expression. The expression is enaluated and cristment cambda junesions are often word with a simple function is passed as an organish to higher ander functions:

Example

mulipy Hamda X (y x x y

point (multiply (5,6)) # output: 30

Output: 30

Multiple inheritance is supported in python.
Multiple inheritance is supported in python.
allowing a class to inherit from move than
one poment class. This geature enables
the child class to access attributes and
methods of all the poment classes.

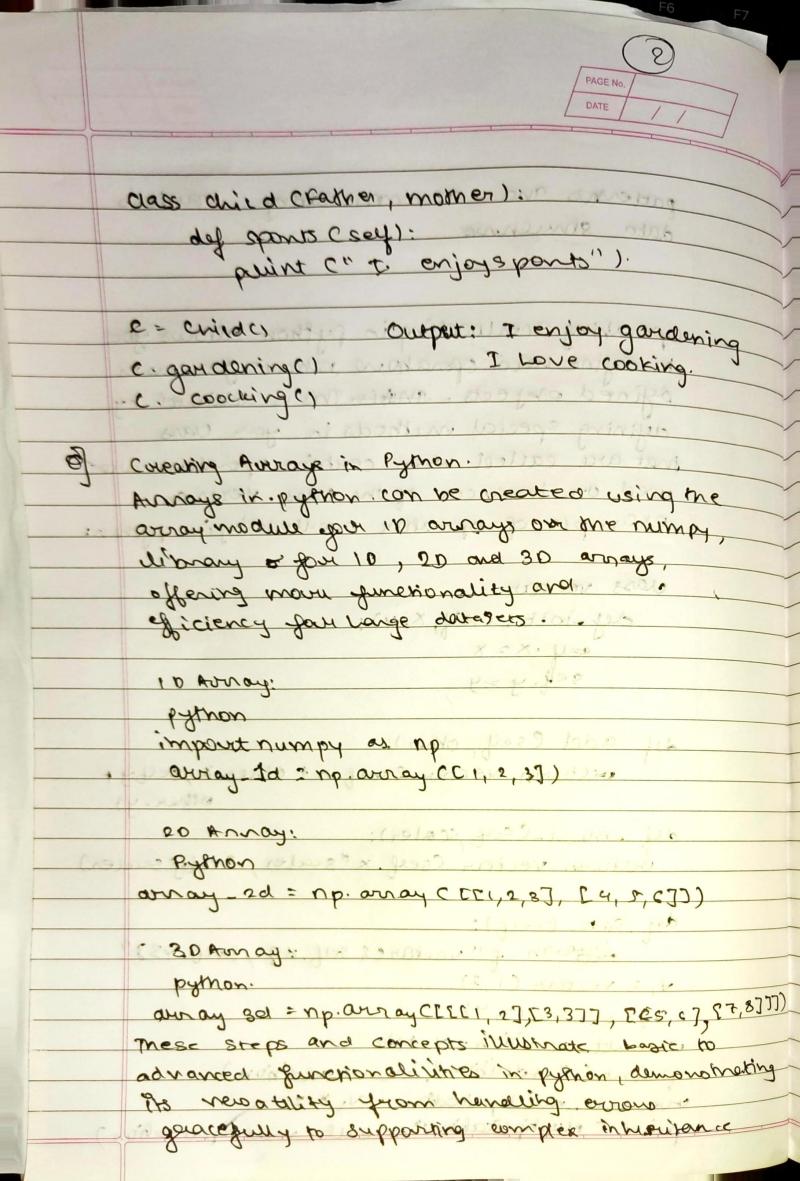
Example:

class fathers:

det gardening (self): puint or Enjoy grandening").

cross Hohn:

and opport (" [enjoy sooking")



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-	opening ever beauting in one
-	operating over locating in python allows you define now operations peravise so
-	A CONTROL TO LAND
	dyining speedal " achived by
	defining special methods in you was
	mat are called when certain operator are
	example of operator mouses. Here's an
3 1	example of operator overleading in 17mon:
1	Je po de de de de la favon:
	class rectory
	des rectors
	1 the ways is the
	gey. x=x
	140 NO 14 11
-	wastes.
	def add (self, other):
	welturn rection escap, x + other. x, seeby+
	other.y)
	def mul-Csel scaler):
	vehren veetor (seef. x * sealer self; sealer)
	CEST IS TO ENTIL DISTRICT TO THE PROPERTY OF T
	def 8 Fm - (seef):
	Lawren & "vector (& self. x 3, 38ect. 43)"
	V, = Vector (1,2)
	V2=vectoric3, 4)
1	risult_acidinon=1, +12
1	oceant admining the delivery
10	puint (" Addition! oreautaddinion)
	priant (muchipercation: result muchipercation)
	aint (muchiplications oresult multiplication)

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Addin's n: vector (4,6) Numipercanon: vector (2,4)		
Addin's n: vectour 14,61		
Multiplication: vector (2,7)		
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