	OOPs
In [1]:	<pre>class languages(): pass</pre>
In [5]:	<pre>lang1 = languages() lang1.name = "python" lang1.users = "a lot uses " lang1.easy = "easy to use"</pre>
In [7]:	print("The name of the language is ", lang1.name ,"this language is ", lang1.users ," and it is ", lang1.easy)
In [9]:	The name of the language is python this language is a lot uses and it is easy to use lang2 = languages() lang2.name = "Java" lang2.users = "a lot uses" lang2.easy = "very easy to use "
In [11]:	<pre>print("The name of the language is" ,lang2.name, " this language is" , lang2.users," and it is",lang2.easy) The name of the language is Java this language is a lot uses and it is very easy to use class languages2():</pre>
In [17]:	<pre>types = "programming language" lang3 = languages2()</pre>
	<pre>lang3.name = "C++" lang3.uses = "object oriented programm" print("The name is : ",lang3.name ,"the type of language is : ",lang3.uses , lang3.types)</pre>
In [19]:	The name is : C++ the type of language is : object oriented programm programming language lang4 = languages2() print(lang4.types) programming language
In [41]:	<pre>class lan3(): definit(self, aName, aTypes): self.name = aName self.type = aTypes</pre>
In [43]:	<pre>lang5 = lan3("C#","software development") print(lang5.name) print(lang5.type)</pre>
	C# software development
In [44]:	instances and class variable class student():
~~ [45].	language = "Python"
In [45]:	<pre>stu1 = student() stu1.name = "college" stu1.age = "26" print(stu1.name) print(stu1.age)</pre>
In [46]:	print(stu1.language) Python
In [48]:	<pre>stu1.language = "collin" print(stu1.language)</pre>
In [49]:	<pre>stu2 = student() stu2.name = "finder" print(stu2.name) print(stu2.language)</pre>
Tn [54].	finder Python
In [51]:	<pre>print(stu1.name) print(stu2.name) print(stu2.language) college finder</pre>
	inheritance
In [52]:	<pre>class one(): name = "one"</pre>
In [57]:	<pre>class two (one): num = 12543</pre>
In [60]:	<pre>person1 = one() print(person1.name)</pre>
In [62]:	<pre>person2 = two() print(person2.name) print(person2.num)</pre>
Tn [62].	one 12543
In [63]:	<pre>class one(): name = "one" class two(): num = 356269</pre>
In [64]:	<pre>person1 = one() person2 = two() print(person1.name) print(person2.num)</pre>
	multiple inheritance
In [76]:	<pre>class three(): country = "India" class four(one, three): city = "Hyderabad"</pre>
In [77]:	<pre>person3 = four() print("the method from class1 : ", person3.name) print("the method from class3 : ", person3.country) print("the method from class4 : ", person3.city)</pre>
	print(person3.country) print(person3.city) the method from class1 : one the method from class3 : India the method from class4 : Hyderabad India Hyderabad
	multi level inheritance
In [78]:	<pre>class a(): name = "one" ids = "456"</pre>
In [79]:	<pre>class b(): num = 89456</pre>
In [86]:	<pre>class c(a,b): country = "India"</pre>
In [87]:	<pre>person4 = c() print(person4.name) print(person4.ids) print(person4.num) print(person4.country)</pre>
.	one 456 89456 India
In [88]: In [89]:	####### polymorphism print(55+66)
In [90]:	121 print("55"+"66")
	print("55"+"66") 5566
In []:	