In []:	#What is Modules and Package #Modules: collection of functions variables and class. Each and every file with .py
In []·	#extension is a module #Package: Collection of Modules Modula -3 based on this language nython is also known as modular language
	Modula -3 based on this language python is also known as modular language #Types of modules 1.Inbuilt Modules or Builtin Modules> That modules that we can directly use we need not to define
	that modules Internally PVM knows how many functions, classes and variable are present in that module. 2.User Defined Module> that are prepared by Developer
In []:	<pre>#How to import modules Math> sqrt(), ceil(), floor(),fact random> randint(),random()</pre>
In [28]:	<pre>import math #print(help(math)) print(math sgrt(4))</pre>
	<pre>print(math.sqrt(4)) print(math.ceil(4.8)) print(math.floor(4.5)) print(math.pi)</pre>
	<pre>print(math.e) 2.0 5</pre>
	4 3.141592653589793 2.718281828459045
In [30]:	<pre>import random #print(help(random)) for i in range(10):</pre>
	print(random.random()) 0.941040106181066 0.7059438439049942
	0.7039438439049942 0.7081495442222925 0.5876607554408589 0.3391788573250727
	0.27766087741761614 0.7871818833183066 0.1553360879825153 0.34173736263960575
In [34]:	0.46130697131578824 import random
	<pre>for i in range(10): print(random.randint(1,200)) 111</pre>
	5 186 16 138
	144 30 122 115
In [38]:	<pre>import random</pre>
	<pre>for i in range(10): print(random.uniform(1,200)) #Uniform> It is returning decimal Number between the given range</pre>
	103.75603736512501 189.61535950201076 16.17884070539316 98.16799232292414
	107.03385525011225 86.41324655683202 127.18032528958 188.5927736433548
	171.40069519266916 117.72049875805477
In [41]:	<pre>#choice> return a random object x=["Pr","Python","Twilight"] for i in range(10): print(random.choice(x))</pre>
	Twilight Python Pr
	Twilight Pr Python
	Python Python Python Python Pr
In [45]:	#About User Defined Module import Functions
	ModuleNotFoundError Traceback (most recent call last) Input In [45], in <cell 2="" line:="">()</cell>
	1 #About User Defined Module> 2 import Functions ModuleNotFoundError: No module named 'Functions'
In [46]:	<pre>import addf print(addf.add(10,20))</pre>
	print(addf.x) 30 None
In [59]:	import Calculator import importlib
	<pre>importlib.reload(Calculator) print(dir(Calculator))</pre>
	<pre>print(help(Calculator)) print(Calculator.add(10,20,30)) print(Calculator.sub(10,20)) print(Calculator.mul(10,20))</pre>
	<pre>print(Calculator.div(10,20)) print(Calculator.Strong(145)) ['Strong', 'builtins', 'cached', 'doc', 'file', 'loader', 'name', 'package', 'spec', 'add', 'div', 'fact', 'mul',</pre>
	'pi', 'sub'] Help on module Calculator:
	NAME Calculator - Created on Wed Aug 24 19:22:28 2022 DESCRIPTION Cauthory proty
	@author: praty FUNCTIONS Strong(n)
	Strong(n) add(x, y, z) return the Addition
	div(x, y)
	fact(num) mul(x, y) return The multiplication
	sub(x, y) return the Subtratction
	DATA pi = 3.14
	c:\users\praty\calculator.py
	None 31 -10
	200 0.5 Strong Number
In [64]:	<pre>from Calculator import * import importlib importlib.reload(Calculator)</pre>
	<pre>print(dir(Calculator)) print(help(Calculator)) print(add(10,20,30))</pre>
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(Strong(145))</pre>
	['Strong', 'builtins', 'cached', 'doc', 'file', 'loader', 'name', 'package', 'spec', 'add', 'div', 'fact', 'mul', 'pi', 'sub']
	NAME Calculator - Created on Wed Aug 24 19:22:28 2022
	DESCRIPTION @author: praty
	FUNCTIONS Strong(n)
	<pre>add(x, y, z) return the Addition div(x, y)</pre>
	fact(num)
	<pre>mul(x, y) return The multiplication sub(x, y)</pre>
	return the Subtratction DATA pi = 3.14
	FILE c:\users\praty\calculator.py
	None 31
	-10 200 0.5
In [71]:	#Way of Importing #1. wITH THE HELP OF IMPORT STATEMENT> While accessing the
	#functionality of the module you need to write module name import Calculator as Cal
	<pre>import importlib importlib.reload(Calculator) print(dir(Calculator))</pre>
	<pre>print(help(Calculator)) print(Cal.add(10,20,30)) print(Cal.sub(10,20))</pre>
	<pre>print(Cal.mul(10,20)) print(Cal.div(10,20)) print(Cal.Strong(145))</pre>
	['Strong', 'builtins', 'cached', 'doc', 'file', 'loader', 'name', 'package', 'spec', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] Help on module Calculator:
	NAME Calculator - Created on Wed Aug 24 19:22:28 2022 DESCRIPTION
	<pre>@author: praty</pre> FUNCTIONS
	Strong(n) add(x, y, z) return the Addition
	div(x, y)
	fact(num) mul(x, y) return The multiplication
	sub(x, y) return the Subtratction
	DATA pi = 3.14 FILE
	FILE c:\users\praty\calculator.py
	None 31 -10 200
	200 0.5 Strong Number
In [70]:	<pre>#Synatax is> from module_name import * from Calculator import *</pre>
	<pre>from Calculator import * from test import * import importlib importlib.reload(Calculator)</pre>
	<pre>print(dir(Calculator)) print(help(Calculator)) print(add(10,20,30))</pre>
	print(add(10,20,30))
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(Strong(145))</pre>
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20))</pre>
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(Strong(145)) f1() ['Strong', 'builtins', 'cached', 'doc', 'file', 'loader', 'name', 'package', 'spec', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] Help on module Calculator:</pre> NAME
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(Strong(145)) f1() ['Strong', 'builtins', 'cached', 'doc', 'file', 'loader', 'name', 'package', 'spec', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] Help on module Calculator:</pre>
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(Strong(145)) f1() ['Strong', 'builtins', 'cached', 'doc', 'file', 'loader', 'name', 'package', 'spec', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] Help on module Calculator: NAME</pre>
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(div(10,20)) print(Strong(145)) f1() ['Strong', '_builtins_', '_cached_', '_doc_', '_file_', '_loader_', '_name_', '_package_', '_spec_', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] Help on module Calculator: NAME</pre>
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(Strong(145)) f1() ['Strong', '_builtins_', '_cached_', '_doc_', '_file_', '_loader_', '_name_', '_package_', '_spec_', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] Help on module Calculator: NAME Calculator - Created on Wed Aug 24 19:22:28 2022 DESCRIPTION @author: praty FUNCTIONS Strong(n) add(x, y, z) return the Addition div(x, y) fact(num)</pre>
	<pre>print(sub(10,20)) print(mul(10,20)) print(mul(10,20)) print(div(10,20)) print(d</pre>
	print(sub(19,20)) print(sub(19,20)) print(strong(145)) fil(div(19,20)) print(strong(145)) fil() ['Strong', '_builtins_', '_cached_', '_doc_', '_file_', '_loader_', '_name_', '_package_', '_spec_', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] help on module Calculator: NAME Calculator - Created on Wed Aug 24 19:22:28 2022 DESCRIFTION @author: praty FUNCTIONS Strong(n) add(x, y, z) return the Addition div(x, y) fact(num) mul(x, y) return The multiplication Sub(x, y) return the Subtraction
	<pre>print(sub(10,20)) print(mul(10,20)) print(div(10,20)) print(div(10,20)) print(strong(145)) fit() ['Strong', '_builtins_', '_cached_', '_doc_', '_file_', '_loader_', '_name_', '_package_', '_spec_', 'add', 'div', 'fact', 'mul', 'pi', 'sub'] Help on module Calculator: NAME Calculator - Created on Wed Aug 24 19:22:28 2022 DESCRIPTION @author: praty FUNCTIONS Strong(n) add(x, y, z) return the Addition div(x, y) fact(num) mul(x, y) return The multiplication sub(x, y) return the Subtraction</pre>
	<pre>print(sub(19,20)) print(fud(19,20)) print(f</pre>
	print(sub(18,0,28)) print(sub(18,0,28)) print(stay(18,0,28)) print(stay(18,0,28)) print(strong(145)) F1() ['Strong', '
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In [65]: In [66]: In [68]: In []:	print(selfs) 283 print(serrong(18) print(serrong(18)) PME Calculator - Urestee on Med Aug 20 19122120 2022 DESCEPTION (Guldor - Break) (Guldor - Break) (Surger(1)) Streng(1) Solid, y, z) Streng(2) Solid, y, z) Streng(3) Solid, y, z) Solid The Addition Solid, y, z) Solid The Addition Solid, y, z) Solid The Solid S
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