Python - 2 rd. ausgamment.

Geroup - to

How Exceptions can be maised using keyword raise() with ex can trade your own exceptions that you antispated but we can also states your, Raising an exception is a way saying. "stop ocunning the code in this function & more the program execution to the accept statment" exception are recised with raise statment In code a raise statment consists of the following: · The state keyword. · A call to the Exception () function. · A string with a helpful conor message passed at the exception () function. def for Point (Symbol, width, height): if (len (symbol) != i: souse Exception (symbol letate must be a Single character string ") if width <= 2: raise Exception (width must be greater than 2) il wheight <= 2 socise exception (height must be greater than 2") (Albion of loampe) tring for (: in range Cheight - 2): point (symbol + (" "* (width -2)) + symbol pacint (symbol * width).

6 what are assertions tow to disable assortions emplain with example.

An associon is a sanity check to make sure These sanity cheks are performed by assert statments of the Sanity checks fails, then an Assortion Error empressed. Disabling Assortion. · Assertion can be disabled by passing the -o option when sunning Python This is good for when you have finished worthing and testing your program & don't sanity checks most of the time about statements do not cause a noticeble speed difference. · Assertions are for development, not the financial product By the time you hand off your program to someone else to run, it should be bree of bugs & not require the Sonity checks. def Kelvin do Faranheit (Remperoture): assort (Temporatione >=0) retrain ((Pemperature - 273) * 18)+32 posint Kelvin to Favranheit (273) -> 320 point kelvin to further (-5) -> coron. 3 what is logging. Explain with example; logging is a great way to understand what's happening in your program and in what order its happening in your porogram and in what oxides it's happening. Pythons logging module makes it easy to caeate a viccourd of custom messages that you coule. These log message will describle when the program execution has reached the logging.

function call & dist any variable you have apecified at that point in time. On the other hand, a missing endicates a part of the code was skipped & never exected. Eq 1. imposet logging. logging basic config (level = logging (DERUG, formale = 1% Caschne)s - %. (level name)s - %. (message)s!) logging debug ('Stout a program') det factorial (n): logging, debug ('stort of factorial (1.5%.1) 7.60) for in stange (n+1): total * = i (ogging debug ('i's 1+ str(i)+1, total is '+ str(total))
logging, debug ('End. of factorial [1.87.1.) 17.(n)) return total Deint (factorial (5)) logging debug ('End of program') what are classes. & objects. Explain with Example pragram python is an OOP language. An object is simply a collection of data & methods that alt on those data similary, a class is a bluepaint for that objed. clays. dans definitions begin with a class keyword. class My New class: This is a new Clau!

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its attribetes are defined. Attributes may be data or functions. Eg. das Poison: "This is a provion and class" def greet (self): point ("Hello") Objects It can be used to coreate new object instances of that class . The procedure to coreate an objects is Similar to a function call. havy = Person () Eg: class Peron:

This is a perso class " def grech (:3c//):

print ("1 Hello") having = Porson () -> Corease a new object

of person class.

having, great () -> "Hello" what are IDLE's debegger Emplain all modules
of TDLE's debegger

The debegger is a feature of IDLE that allows you to execute your program one line at a time

The debugger will own a single (ine of code and.

Then wait for you to tell it to continus.

By running your program" under the debeger"

too like this. The pologram will stay passed untel your pores. one of the five bittons in the Debug control. window: Go 1 step, over, out our 130it.

O Go: Clicking the Go button will cause the program.

To execute normally untill until it terminates

or reaches a break point. Description of code and then pause again O over: clicking the over buton will execute the next line of code, similar to the step button, however, if.

The next line of code is a function call, the over button will "step over " the code in the function. 6. Out: Cirking the out button will cause the debugger to execute lines of code at feel speed until it sections from the current function. O Quite: For If you want to stop debugging entirely and not bother to continue executing the rest of the program. click the Quit buton.