Mathematical Functions 4) abs(x(1) > positioned only abs (-70) #70 abs (-70.12) #70.12 abs (3+4))= 5 (32+42) L) pow(2,3) // pow(bale,exp, mod=None) pow (10,2/3) 100/32 pow (2,3) #8 wound (num ber, ndisits = none) > mound round (4.4) #5 round (4.5) #4, close round(5.5) \$16.4 vound (3.5421) #4 round (3.5421/2) #3.54 diumod (915,1) -> posiciond only

d'ivmod (10,3) diumed (61,7) (8,5) min(iterasle, *, key= Nore, detault =1 min (10,3,7,2,5) ~ n (-10,3,7,-2 m 7 (-10,3,7,-2,-5, Key=abs) # Empty List max(i terable, *, Key= Nond, destaul f= None) words = ['spple", "benshir kiwi," "snepe"]. max (words, key=101)

/ built-17 Proul sum Citareble: scalt 20 194 (Sum (C1,2,3,4,5)) 11 € (SUND [1,2,3,4,5], Stalt=20] EVAL (expression, slowls a none)

eval (expression) = sering # explession = siering pt (eval("10+20+4-5)) #85 Slobal-dict= { 21215, 71.203 106/2 dict= 2'a":53 3105d-did, 10cds-did) evd ('x+y+a' #35 + 15T+20 +5 Ibject attributes type (object, base = Nove, dict = Nove) Ja tupe object espe((1,2,3)) > top6 enpe (10) > inf enpe (10:5) > +100t enpe (10:5) +5+100t enpe (11:401101) +5+10 Lape (5'9':1,5:23-) Lice (type (None) =) NoneType eripe (Trub) 7 6001 Mina ([1,2,3]) = (15th

is istence (objed, closs, no) -> 5001 Instence isistence(x,int) # mre Isisten a (xitloot) to True isistence (x. (int, ser)). #Troe hasattr (Object, affribute) S=11+10 world"

S=11+10 world"

) Pr Chasetta (s, "find) pt (hasetty (s, "istowee")) hasott r (s, "search") setatly (05), attribute, de bult=wone) in poet math "pi"))
setatly (math, "pi")) Setatly (mats, 1504) (161) L) ID: (object)) integer 0 X = 10 1 12(X) 112(Y) 9210 11213] 4= E11213] id(Li), id(L2)

wit in A501-3 y dil discosled) we (use) Lis (mitt) reprovided) > String Lacepy Lext = 14tello world pt (reprotext) # "Hello would" b) solded (Herrable, 1, 4, 10/= Nove) revorsest I tenetion / ser L12 Sexted (L1) 7 [-3.11,7,8,12] Secret (L1, red = 8 65) -> [1,-3,7,8,12] socied (Line verse = True) = C12, 8,7,1,-3] Le renzo (itemable) Shoo red C L7 Re verse L1 = [1, 12,7,-3,8] Reversed (LI) // iterator se V= V (Vorsed (LI) pt (Ust (ren) [8,-3,7,121]

slice (steet= wore, stops wore, stops wore)

slice (steet= wore, stops word only pasitioned only -L1 = [10, 20, 30, 40, 56, 66, 70] s = Slice(#[[10,20,30,40,50] Her (Object, sentid = Nore) , They I next -=C10,20J itz ; tor(CLI) pt (next (it)) #10 pt (rext(it) # 20 (rex t (it)) # St

ika dos

1,1

[hard

Built in I import date import & yod vles My proseom. Pg MyModule-Py impost My Module Pt (HyModule. 2013) data = 500 Pt (MYMODULE add(20,007) def add (ab). Pt (MyModule , Sub(20,10)) reting atb Mymodule) def sub Gib): 500 (pt (--nome--) if -- nome -- = "-- main -- ". 30 / pe ("sum", add (10,5)) pt ("sub", add (10,5)) 10 putton Mayodule. Py - -main --