(iii) Nested Loop A nuted loop le a loop within a loop. the since loop who structe through its entire cycle for each iteration of the outer loop.

For loop instale for loop · Por loop inside while loop. () trinsp · mile loop inside for loop 1+3-3 · while loop inside while loop. \* For loop merele for loop

Systam: for Machable (1) in large () # outer loop. for Vaccable & Por rounge (): Inne loop. Statement of more loop. 32/ Statement of order loop. Eg: mutiplication table from 1 to 10. nortestablishers for ? In range (1, 11, 1): (00713/5005) 0/7801 for j in range (1, 11, 1);

print (i\*), end: print () : a = > ? elida \* phile toop Presde while toop 6,1 = haghed (1) tort Syntam:

Drittalization of outer loop.

While Conclition outer loop. Diffilication of Ennu loop. 1-9 while Condition: Rone loop. 00 -> ? 1/200 Statements of some loop. (6.103==0): (?) tring. Statements of such loop. inclose of the loop. else: pas Example, multiplication table from 1 to 10. soulle fice lo:

Sel god printer god p & god between good potente while 1/2= with through the while you want print (1\*j, end "")

god oof ilsens god oot. ): 」+1 goal while elastic goal of. Don't C) goal egt elsens goal etera. 8 141 · souls loop instale while loop. goal not along goal for

shell procede a state loop (" " ) some (" " ") long. Por Mariable en range (): Oute loops (Shorings while (condition): inne loop. Statement of inner loop. 5 104-240 J. Xand dee of solite bop Statement of outer loop to sould a st nothing to worked me alow agreed for 90% mange (1,6,1) com J=1

Nohile (J <=5):

Prent ("", end2"")

J=J+1

Prent (", end2"")

(Store)

(Store) in othered function: Tuestions on maked by uses using itsyphological point (k, encl?" ") (" transite) man mother of to Statement situe. \* For Print() ( Tonkon Pritalization of wholestoops of lugar lovo alex OV Londfon while (condition): Double loop. Per go bugger affect (11) Trockson for Variable therange (The land lagor land 1800 (w) Punction Statement of onnee loops was Stalement of outer loop. Enamples 2008 of astron enothery (redinces) \* total P21
While (P(25): While (P(25)! forly in range (1,6,1):

part (" \*", encle prol (" ", end=" ") Toal 2007 (northnor) 12400 Prod () god sons to family 18 goal due of satile loop A function is a block of cocle that performs a specific \* PUNICTIONIS Function males ous program more assanced, readable, and -lask. :(लन्तर) धातल Dissell en finction: the is alundy available in python. 1+1=1 -type (), (Tobat (), Coput(), Cin() () () () (5) were defined function: Punctione au cualeel by usea using def (define) begroons. des function\_name (paramèter): (Priprit) Return orde ad of part. Statement etern value. without proper up without setup of the (1) Pondion with Emput up without setures: (notions) dite (9) Tunction without copiel and with seitens: (Pr) Function with Enput cres with returnments (Pu) Punction (8) Lombela fonction

Anonymous (Nameless) functions woulden in Single Line using the lambda leyword. (a 37) disa : (1, 5 / ) 10

1. Punction without input and Afthout returns also and son ? . 8. old for name(): det fun\_name(): 1 months 2 Statement. Call the function. wysman s function-name. ( )8 Hos fulo Harbete Anstele a function by called local leadable. Y+x+2 E. Y. X rentel enample. Adalition of a numbers. adol3() def addl(): Ester x vialue 53 N= Pot Copul ("enter a value")) coler y value = q. y = Pot (Poput (" enter a value")) Sum = add 3C) S= x+y pant: (1" sum of the and Expel (s)") and only of det for-name (1) 12... (2): Call the function. add1() Statements etuen reluce. Output: Cole a value : 3 Gote a value: 4 oley add A(x, 4): Sum of 3 le 4 % 7. eitues. Y+X=8 2. Function with input and without .2. Y. X aute del for-name (PI, Pa, .... Pr): add (2,3) Statement. (a, 8, 6) (Coll the function) fun-name. 4 74, 5 = (Deleta (28, 25). Enample (Addition) de add a king: (" { 2 } & { { 1 } } } ) for first for mos " h) form Sexty Mont (1" the Sura of 20% and 24) is (13") " 10 mil add (4,5) Output: Sum of 4 and 5 13 9

3. Punction without input and with extreo; () mon not ferre old fun-name(): Statement etun value. note muf with the emaraple. mon-notional. oly add 3(): Yo Port (Popul ("enter y value")) S=x+y enteren x 14,3 modern a fo nothels A . P.ga. adol3() cled molelic): eolu x value = 3 No Tol Copul Cinto a value ) este y value , 4. 4. Post (3 part (" enter a value")) Sum = add 3() 4: Ponetton with enput and with tutures. mos "1) losg. dep for-name (P1, P2... Pn): en-this fenction. Statements extuen realize. adolico enample: Bulgari, Color o nopio 3 oly add 4(x, y): Swot 3 w 4 B. J. 3=x+y autie brother love torget diser nothing! educo x, y, s. add4 (2,3) of po-view (61 (25 ... 16). Outrus: frametok. ( x, y, s = add (4(4,3). (nonsouf silv Print (1" 30m of frit and frit is fist a) (00000000) of the

conample Conale a function to cheek the gluen numbre le puirse or not using with Enput and without eiter method. def theme (n): for ? in range (2, n, 1): Co.1. 6==0): Toron (n," Ple not pelme number") else: Digot ( win gre byzwe wreepig) Dime(19) Output: A ils Johns number.