ABDU 1 Ly Function is a piece of code which peristoens specific cosks Sun-1 Lyowy Functions Ly Reusable - write once, use many 4mes refin of LyTakes i/P as polometers -d LyBuict-i) / Usal-defined. > Usar defined Functions a Header 6. Ready c. calling d. polerny en sin-mome (< poleme (ms): 1/p Furnal Palametrus Statement 1 Statement 2 204 setum volue (0/p) V= volume (10, 5,3)

V= parter in det

Volume (lensth, bleadth, height): VOIC length & bloodth & tois But 464 letorn Vol if _ name _ = = ' _ main - ': v= volume (10,5,3) pt (V) \$150. Positional/ regularly Angl some order Ly V= volume (10,5,3) positional ansuments det volume (lensth) breadth, height)= Pt (lensth) bloodth, heisnt) Vol = lensth & Sleadth & height 10,5,3 RELIND VOI #150 V= Volume (10,5,3) 5,10,3 #150 pt(Y) Key bosed

Keyword based volume (length, breakth, heister)!

PE ('Al heister) PE ('Slengthy') (Bd) V= Volume (lensth=10, bace=116=5, hoisnt=3)

pt (V)

koichet no 1 Keishel +33 lons/5:10
1 Keishel +33 lons/5:5
1 beautiti: 5
1 Keishel: 3
1 Keishel: 3 Cale! volume (lensth=10, breadth=5, hoiset=3) 10ns/5,:10 blackth: 5 Leight: 3 v= volume (basadth = 10, height=3, lens V= Volume (5, lensth = 10, heish = 3) ATYPEETOR 1 volume () so 917

positional argument follows keyword

[positional argument

S V= Volume (lensth = 10,5,3) Il syntex arrol Cell 5, hoisht = 3) Con solidated a. V= volume (10, b=5, h=3) = Pisnt

V= volume (10, b=5,3), should be

right hard side

or # det volume (1,5,4) V= Volume ()=10,5/K=3) d. N= Nature [10,5,5=3) # Moles ple amos of b V= V2(une (10,5, heiset =3)

Default arguments Fun -3 Y L1=[10,20,30, ..] Li. index (20) L1. index (20,2) L1. Index (20,2,4) U. POP (index) Ly det volume (1,5,6): letima V V= Volume (10,5,3) \$ 150 L7 det volume (1, b=1, h=1): Vilxhxh V5 volume (10,5) # 50 #10 V= Volume (10) Ell it Erion v=volume () Herrol sinesid volume (le1, b, h=1); # Syntax Errol VZLRboth by ded setin V vovolone (19,5,3)

```
2> def volume (1=1, b=1, h=1):
    V=volume() #11
 det pt(aibi()
      fin(S,10,15) # 5,10,15
L) des son (a=1, b=2.5, c="hello")
    pf(a1b1C)

# 5,10,15

# 1,2.5,11Hello"

An()
en (2/10/15) # 5/10/15 10/10/11)
   the pass any type of arsuments

He pass
     HT Poss
```

Kuny Nunce 1=[1,2,3]): 1. appoint (Len(1)) def H [1,2,3,3] pt(1) Sunce > # [1,2,3,3] enc() fr (1,2,3,3,4) proc([10,11]) # 10,11,2 A default time. gnc() # [1,2,3,3,4,5] Position x only Ansuments det en perais de 20) Rn (5,10, C=15, d=20) X An (a=15,b=10, C=15, type ember Run (S110, C= 15, d=20) pr (5, 10, 15, d=20). an CS, 5210, c=15, d=20) The Enviol

Lydet the (aibicidit) > All positioned

det for (1,915,CA) > only not allowed

det for (911,bCid) > only a is positioned

des for (911,bCid) > only a is positioned Keyword endy and Theyword positions and Theyword only def son (a,b,C,d): def sm (aibicid) fin (5, 10, 15,20) // syntax carol Ly Keyword only det fin (*1916, C/d)". pt (915, C1d) Regulard only & positional only det for pt (a1b, cidicit) fun (albicili *, dieif) Key word only positored

for (9,/, b, *,c)". (About 4 def pe(915,() fun (5,10,15) > NOt Would fm (5,10, (515) > allowed Fun (9=5, 5=10, C=15) > Not Mowed Clotherses: Thenst det interst (*, p, t, r) st=(p* t*r)|r setim st leturn 1/ax-3: max 3 (a16,0): if (a7b, Sizinterst (P210000) se fin a elif return b pt (si) else jeturn c pt (max3 (5,4,7)

de f

remasion (phrase):

letters = re.sub(r"[Na-ZA-Z],"".Phrase 18thens set = set (letters. lowerin) if letters-set == 26. Str= "The suick brown fox jumps over lary dos" pt (ponaseon (ser))