

-> Replacing a steering:
S. suplace (aldstring, newstering)
Splitting of Steings.
S= "22-08-2018" S= C c-1:+ ("-")
S.= S. Split ("-") [1. iii] bruges hasq Point (S.)
Ofe: 22 08 2018 Daining A Staing E. 190
Syntax: S= Separator. join (group of sterings) Leg: t= ['Sunny', 'bunny' (d):)
S= '-' join(t) peint (s) Ofp: Sunny-burny- (hinny do') travalled him
Ofp: Sunny-burny-chinny do thouse the
10 check type of characters present in item.
(isalnum () (2 isalpha () (3) isalgit () (4) islaver () (5) isupper () (6) istitle ()
F) isspace ().

```
Slicing:
 Syntax: list 2= list ( Start: Stope, step)
 > To insert item at specified index position
    insert () func:
                           Syntax: insert (index, element)
  n= C 1,2,3,4,5]
   n. insert (1, 188)
                       Cinday common ibound - S
  point (n)
010: [1,188, 2, 3, 4, 5]
                                          (2) In 181
                  The Congra 'song' i Dog )
> Pop () furction:
 n. pop (index) =) To summer & suturn element
present at specified index
 n. pop() => no sumore & suturns lart element
                     of the (list: exercise) these . a
  £g: h= [10,20,30,40]
                            (01/02/08/24) = 010
       n. pop () #40
       1. pop (2) H20
                                   Clear O funtion.
      Print (n)
   0[]: [10,20]
                                     Chara i) ed
                                       n. (1,001)
→ Suresul ():
    n= (10, 20, 30)
    n. surcouse ()
     point (n)
 0/P, (30,20,10)
```

```
Sort O function:
 n=[20,5,15,10]
  n. sout ()
           which takes it to made there
 point(h)
                                - sound () the sound
 Off: [5, 10, 15, 20]
                              [2. J. i. c. 1-3.
                              (2011) tour
 S=["Dog", "Banana", "Apple"]
 S. sort ()
                        [2, 188, 2, 3, 4, 5]
 Point (s)
Ofe: ('Apple', 'Banana', 'Dog')
To sort in revenue (Descending) Donder
 n=[40,10,30,20] 3 30000 00 (= () 909
 n. Sort (suverse = Taue)
 print (n)
                        (ON 108, 05, 101)
Ofo = [40, 30, 20, 10]
                           D. 100 () $440.
                            D. pap (2) #30
Clear () function :
                                 Point (10).
 n=[1,2,3,4]
                              [00,01]:
 h. Clear ()
                                : () 2002
 point (n)
Ofb: []
                               D. MICHAEL ()
```

SET = & g
Important functions of Set is
1. add (a) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
2. Ilpdate (x,y,z)
3. (6py () (ps, of (p) come. x) top
4. Pop () > Pops out last element (x)
5. Symmetrice difference (1) of some on six start
-> Petron clements powert in either
of (on) y but not but).
y = { 10, 20, 40, 50gg) voille kreini x : xalogo
J = 12 (0,20, 40,309)
pret (2. symmetric différence (y)) unsolide :
%: {30,40,50} and
6. gemore (x) > no giernore clement
6. gumore (x) > 10 gumore clement
7. disingd (x) > It sumoves specified clamere
8. Clear () -> no clear all ellements
in set.

Mathematical approactions on Set 1. Union () > To section all elements present to both sets. X= 200, 20, 30, 409 y = {10, 20, 30, 50g Pat (x. union(y)) -> {10, 20, 30} Paint (x1y) >>> \$10,20,20,30 490 con use occurrionly) boa) or ory 2. intersection () -> Returns common elements from Syntax: 7. intersettion (y) ~ (09) x & y} 3. différence () 5 Réterens eller but noting, of, off Syntax: [x. difference (y) (or) scry incord (x) > It sumover specified about dion () - no class all climate . to 2 M

Dictionary Dota Structure:	Furting.
=> Syntax: d= & 3 (09) d= did()	los pla
d= { key: value 9 (a) }	s) hive
Polypate a Dictionary	9: 10
d[key]= Value d= {100: Powon; 200: Bhig d[200]= Vysh	
Paint (d) =) {100: 'Pava', 200 : Bhu, 300:1	ych?
Important functions in dictionaries:	nol : 2
1. get() -> d. get(key) -> Determ the vo Specified key 2. Pap(): d. pop (key) -> Removes the va	lue for
3. keys(): d. keys() > Returns all le	
4. values(): > petions all values	bil si
5. items (): Deturns list of tuples. (14, v), (k, v), (x, v)	Depresenting
(k_1, k_2)	

Function: def add (a, b): seturn (a+b) Print (add (5,7)) mby and is sho under a 1 dionosy Ofo: 12 Landa function: Anonymous fention, which can tour any sort of argument. Eg: S= lamban: nthe ever cools (c) (b) sint Dant (S(2)) dete. del disco) S: lambda n: n**n

Point (S(3)) consists of a socitive of treathern 10/8=27el moutain = (per) to b = (ste S= lambda a,b: a+b peint (8 (3,2)) and ((19)1) god-b De 515 Jose concetal. E Corps b : 1) 218 To find biggest nun wing lambde () S= landa a,b: a if a>b elseb point (5 (10,20)), 0/p: (20)

map () function: For every clement present in the given sequence, apply some functionality & generate new clement with Juquine d modification. For this dequisement we should go for map () furtion 11 (1) Syntax: map (finction, sequence) lg: Without lambda in . Tour , Falk , Fal . L=[1,2,3,4,5] def doublit (x) le 1 = list (map (double it, L)) point (li) Of6: [5'4'6'8'10] [869] 11 [81] :010 Note To fetter valuer 92 for fetteris fection with L=[1,2,3,4,5] del = list (maple lambda x: 2*x, L)) Of : [2,4,6,8,10]

filter () function: It is same as the map!)

finction, but it gives actual values as output, where as map () gives true or folge Eg: l=[12,14]1,5,6,98] of Blue li=list (map (lambda x:>0%2==0,1)) print (li) Op: Tome, Falx, Fal, Tome, Tome [=C1,2,3,4,5] Where as: def Loublit (x) li= list (filter (lando x: 50% 2==0, b)

Point (l.) Ofp: [12, 14, 6, 98] · [01, 8, 0, 4, 5]; 10 Note: To filter values, go for filter?) function, to perform writain Modification to values Go for map () furition [01,8,6,4,5]

Modules.	May Cladron ()
A group of function, varia	bles & Marses sared nothing but Module
Math Module:	: Ind (1 bis base 3
(1) Squt(x) (3) floor (x) (2) Ceil (x) (9) fabs (x)	(B) log(A) (F) tan(X)
P = 0 (0 · 1)	Descriptions shardson But sections shardson But sandsons (chart or
©-1. 2.0	(D) Chaire () fration.
Dandon numbers 01	of will satura.
10.6 mobile mobile	neutre live to
Random Module:	il over
> This Module défines ser generate surdon nun	real functions to
generate suram num	beers
> I ked to develop gards	etc.

() Grandom () funit: This function always generate some bloat value 6/10 0 &1 given numbers (inclusive) (3) Uniform (). * tragmi atom mag point (capat (4)) It eveturns hardon float values blev 2 given numbers (not inclusive) tries (a) Grandmange ((start), stop: (step)) trues (5) Choice () finition. > It will between brandom number of
the given list on tuple This Module defines several furtion to amenate gardon numbers