	\$
Sept 11th	- Ser Cong
-	Loop Definition:
	Loop en fython are used to execute a block of code upendedly central a certain condition is
19:	
	met.  Die al Mande a two look:
- 13	Python mainly provide a two loops:
	1. far cloop
	2. rusted loop
_	ger loop enside for loop
7— 9	* far loop inside vehile doop
2	* while loop inside vehile loop
- 1	* volike loop înside far loop
7	-101
16	1 Fai loop 1 walnud simile
7	1) for loop with sequence:
	syntère:
	for variable in sequence:
	for variable in sequence:  Statements
	0 7 2 1
	Steing, list, type tuple, set, dich
	Sub: " bython"
	Sub: " bython"  - blint (sub)
	Output - Bython
	10000

for P Pn Sub: # i is Ellisative variable

Secont (i)

Output: P 0 h Colou: ('black', ivhite', 'led', 'yellow', 'olang')

- feint (colors)

Output: [Black', ivolité, 'led', 'yellow', 'orange')

- for i Pn colors:

- feint (i)

Output: black

- white yellow velange. (1 11 1) mass sub [0] sular de de la sular de la sular s p' 1 21 3512 43/2

	# weite a foregram to feint both fosition and
	Value '
	Joe ? In commerate (sub):
	Jal ? In chamerate (Aub):
	(o, 'p')
	(1, '4')
	(2, +1)
	(3 1'h')
	(4101)
[ pus	10 (5 all best states bede 1 = 200 0)
	COLUMN (COLUMN)
( spr	2)-fer loop with lange () functions far variable en lange (): Elalements
	Jae Varvable En lange ():
	Blalenrents 3000
	(i) though
	Pritialization des de l'action
	Condition
	Incrementation / decrementation
	avalle M
	Cage Concide species
	Range (Start value, stop value, step size) we have default släst value is 0  Step size is 1
	we have default start value is o
	Step size is 1

	(2) Deta:
==	lange (1, 11, 1)
-	(:-1: i< 11: + 1+1)
-	1:2, 2, 3, 4, 5, 6, \$, 8, 9, 10
	AND SURE THE PARTY OF THE PARTY
	lange (1, 11,1) evinter book
	lange (1, 11, 1) avanteur book  (i=1; 1<11; i+1) avanteur book
	1:1,2,3,4,5,6,7,8,9
	1 1 1 1 1 1 1
ev br	for i en range (1.11,1):
	-peint (i)
	for i en range (1.11,1):  -peint (i)  Output: 1
	3 ([i] Yor (i) frant-
	Cutput: 0 p 4
	5
	6
	7 1 0
	8
	9
	10

far i En	lauge (5):	(1, 11, 19)	dellango	14.9
1 - paint	Lagood moen	(1 (1 (1))  ring() + (11 > 1)  g a a 4 (8)	(iri)	
Output :-	good mounin	0 3 2 4 2 6	8.4:1	
	good mounis	g		
	Lond mouni	ng	lange	
	good marinin	9	1,	
	good mans	g F. a. C. P. 8	55 .1 4 1	
N .	N. Chi	Des L Das d	٥٠١٥ ا	1
# weste a	- peogram, 40	Seint both	sosimon au	nol
		£ 53 400		
Sub: py	Thon	1. 8	MAINT	
toll in 8	lange (0,6,1	) .		-
1	116 0.15.7	.1		
-pein	t (1, sub[i]	) 5		
Sub: fy for i in s frin Output:	t (1, sub[i]	) 8		
Culput i	o p	5 4		
Curput i	o P	) 3 9		
Curput i	0 P 1 Y 2 + 3 h	\$ 9		
Curput i	0 P 1 Y 2 + 3 h 4 0	) P 3		
Curput i	0 P 1 Y 2 + 3 h	\$ 9		

		Dets:	
Sub = ' for	thon'	el el- 1	
for i'en	lange (	(5, -1, -1): solvens 650 : 1 ublij) solvens 650 : 1	
Lein	t (i, si	ublil) Minimus ((i) du	
Output:	5	s - odd ruwler n	
	4	0	
	3	h	
	2	to even number +	
	1	y	
	0	for ign rang (1.11, 9):	
		: (0==2,71)(3	
" hen'te	a su	rogram to frint even number f	101
1 10 8	20 ""	· · · · · · · ·	
-fo	u.i i	?n lange (2,21,2):	
<u> </u>	plint	(i) didlet	
	V	TE DUA MUMERI	
Output:	2	2 dues rumber.	_
Ontoul:	4	2 = odd vumber	
Output:			
Ontput:	4	2 = odd vuenber 4 = even veenber 5 = odd ruenber	
Ontoul:	6	9 = odd rusubus 9 = cum rusubus	
Ontoul:	4 6 8 10	2 = odd vuenber 4 = even veraber 5 = odd vuenber 6 = even vuenber	
Ontput:	6 8 10 12	2 = odd vuenber 4 = cun veraber 5 = odd ruenber 6 = even munker 7 = odd numker	
Ontput:	4 6 8 10 12 14	2 = odd number  4 = cun nember  5 = odd number  6 = even number  7 = odd number	
Ontput:	4 6 8 10 12 14	2 = odd vuenber  4 = cum veraber  5 = odd ruenber  6 = even munker  7 = odd number  8 = even munker	
	4 6 8 10 12 14	2 = odd number  4 = cun nember  5 = odd number  6 = even number  7 = odd number	

	\$ Dota :
	I to to of them of of 1
	1 = odd number (1-1-3) puos (13) 10
	2 2 even number (lilduseit 1885)
	3 = 6dd numbu
	3 4 8
	10 2 even number.
	The state of the s
	far i En dange (1.11, 1):
	Pj(iy. 2 ==0):
from	for i &n dang (1.11, 1):  [] (i/. 2 == 0):  -frint (i, "="even number")
	else:
	(e flint (i, "= odd number")
	Oulpub 1- (1) track
	1 = Odd number
	2° even number.
	3 = odd number
	4 2 even number
	5 2 odd number .
	6 z even number
	7 = Odd number
	8 2 dven number
	9 2 odd number
	10 2 even number
	08