13asics Pt("Heilo world") Pt ("This is about indentation") Indentation if 3>1: pt (HThis is single the comment nese de molts cre Pt(" welcom to pathon ywe de avorking on") pt(Hello bworld") Pt ("This is "patton" class Pt (python) is closs) # ! 105/ 200/ 62/ 62/ 105/ 195/5003 a.Py Pt("Hello world") Pt ("Hello learning python) Chrod + X 9. Py 5.1a-19 V

Basis of Valober / patratupes 2=4 pt Lix) #x Pt("hello") Hhello y=5.6 \$ E LY) # 5.6 x=23 (new value) Pt(x) #23 pt(type(x), type(y))# (lass like') (loss < floot) del X ? #pt(x)) java, version = 1.8 X \$] X not volid 'pe (print) × NO xegword my nome = ingrend vair

(letters, norm bels, -) my name="namudra" H don't give space!

my name="namudra" x=10? cse Sersitive # Gn Stolt with - (not with

(Datatipe 2) Ly P4 (id (x)) -) *deress 2 in put out put a= eval (input("no2")) b= eval (input("no2")) pt[f'atype: itype(a)3, b-type: Etype(b)3') pt (+' result is {lesults!) result = a+b = 3, y=5.7; y long="pgthon" pt (f' a In), y. sygin rang is [lang 3') 4 x 3 y:5-7, long is # pythson" Ly Conversions 2=3 y=4'b 2=3+4 J < closs 'complex' > 2=3+4 J < closs 'complex' > Iny-name = "harrent" palse // class bool) my none = True my-value = true// a root my-value = 'tTrue" | String

class 1 incl class ser b. P=0 8=5001(P) -> class 15001 intix) 745 A. X=45 (CX) > y=45.6, (y) #True 2 = 11 Norrend v9 6001(2) -J#True boor (0) (state (list) 6001(23) Fle(dict) POO! (C2)) -> False 600, (() Pool (hore) 6001 (0.0)

6001 (0.0+ ii)

ABOUC Dotsty By (a. Numeric types 6. Valiables set & instructions which understood by C. Literals A. Coorension Program? Openations personned on Lata
Instructions

Instructions ii. in structions volieble

Persts = 15 / Dellocation | Initialization Variables :a. Names given to dota b- Memory: Reserving to Lesta B- Memory: 15 a: Integer: 15 b. price i john (String) c. Nome: john (String) Nome, Price Otyz 11Samp, 12.75,3 id(a), id(c)) de some

a=12-75(+100) a=15 b= 15(1n+) 6=12-75 = "Chald" (CSET) c="130hh") a= 15 12.75 a=12.25 a= 1 John 15 Rules A1 = 10 a1=10 1a=10/ abc-det = 10 -abcdes = 20 asc det =20 X False "yes 10=10 None: Dani folse = yes it = '10" XXX

Rodse= yes XX pt(f-1se) # yes b. Cose sensitive Price= 19.99 price = 28.95 jese 2 yes, Deta tupes single voluce a. Numeric: x=5 ine & y=28.5 Float ! term2 Foise/True complex: 13001 :

(Destatufe 4) Servence ordered, Indexed, motable

nle !-List: 15+12 [2,4,6,8,10] - tp11=(13,5,7) >Immotesle (1,3,57) Toplet Ordered, Indexed, Immutable String: "python": Immotable
Ordered, Indexed, Immotable Set 1= {2,416,8,10} > (dection of volume) mordered, unindered, immutes6, no dups Ley: volue poir key, volues poir legister de prime l'allection of volues poir l'allection of volues po Key: volue poir Ordered, Motoble (changes le) teg/volle Pair Color Presid

) ata types Numeric import sigs Int float Complex sys. getsizeq(x) # 28 sys. setsize a(y) #40/ BOOK. 23:45 2345 = 2345E-2 a=29.75 b=3.75 getsizea (a7#24 C= 9.5E2 d=-3.1E-2 a75-True a75 7 True 1 strue-1 int (x) int (y) #1,0 y=False-d X=Tave? y exalse Eupecc) > Complex C=600 plex (-5, -3.3) pecc) => (-5-3.1i) A = 201 B = 135 - 246 - 198 C = 13 - 52 - 46 - 198 $D = 358 - \chi$ E = -12uCiteraly :- A=201 5212.5e-2 5212.5e-2 5212-5.67 5212-5.67Flood liferds C=12E2

Bod Cife rals DataMPR -5 re= alexa a= 4+5j rel= "lalex9" C=1.4+2.55 esel literal 0210 b 2061010 C 20012 (0 10 +15 A -OXA C1 =061010+15j bin(10) -> obloto -> class ser UDI2 7 Class SET nex(10) -> oxa >> class sex bin (15) 7061111 → 0017 oce (15) hex (15) > 0xf H 051 Type Emol bin (True) bin(1.0)

```
14pc Conversions
int
                   especint(16.59) => class 'sint'
                 arint (16.59) 7 Ho
      float
                 6. int(True) >1
      book
                  c. int("125") > 125
      String
                   d- int ('051010',2) ->10
      bis
                   e. int (OXA; 16) > 10
     HEX
            int ('Alexa') X
              int (374j) X
               float (125) 74125.07
               float (True) H 10
               float (12.75) #12.75)
      6001
     f (oat
          bool (10)
         5001(-12)
         6001[-12€-3)
          6001 (3+45)
           6001 ('False') #True
          5001() 2 False
         p001(0)
         5001 (False) T
```

Complex complex (10) complex ((2.5) =-12.5 to) int complex (torse) > 1+0) 810-5 Complex (3+4) = 3+4) 6001 Carlex

Detatile 6

String

5E-V(10) 10 Str(612) = -12 Str(-1.2=-3) # -0.002 Str(False) #False Str (3+4) # 3+4)

