Day 2 pata Types, Nombors, Operations, Type Conversion, J-Spring. name = print (len ('Python')) name & 0P -> 6 Ingread of strings, what about other data type like nomericals? point (len(12845)) N o/p -> Exams - object int has no lenc? Data types Basic types are, \_ string - Integer - Float - Boolean strings. print ( Hello I [0] ) 0/p-> H > subscrapting Apolling one value from the chair) He 110 1 1 1 1 1 1 point ( Hello [4]) 6/P -> 0 Anything that comes invide the single/doobse quote, we call Pt has string. Point (1231+14561) Op -> 123456 Integer: -- nombers without any decimal places - Print (123+456) O/D -> 579

842 654 896 Kinstead of commas, we can use underscore to visualize the nomber) Floating: -- Nomber with decimal places - Floating point print (3,4152) 6/P -> 3.4152 Boolean: - True/False Qui 2: which statement is incorrect? 982 is an integer L "False" is a Boolean X 257.25 is a Front -"523" Is a string what is the data type of the mystery variable? mystery = 784\_529.678 Integer & porte & string x Float There put a spett on you. You are now a computer. It I give you the tollowing code, what will you print out? Street\_name = "Abbey Road" proint (street name [4] + street name [7]) Abbey Road 0123956789 70V

Karge Integers => 342,654,896

Fotato > /s/ 'abc' < French Fries' machine
Rock => Error (  Asysters resultanction)  machine
print (len (1284)) -> 6 print (len (11284)) -> Error / CType Error /
non-chaq = len ("input ("conat is your name?"))  print ("Your name has" + num-ahor + "characters.")  o/p -> what is your name? Premarand
type () -> Sires the data info.
type (nows_char)  olp_) intsync  type conversion:-
non-char = len (input ("what is your name?"))  rew-nom-char = str (nom-char)
point ("your name has" + news nom-chart + "characters.")  O/p:-hohat is your name? Premarand
(x) All datas are same -> string (contenation is possible)
$a = 123$ $type(a) \rightarrow int$ $a = 140(123)$ $print(70 + froat("100.5))$
type (a) $\rightarrow$ str $O(p \rightarrow ksnows 170.5)$ $a = f(oot (123))$ print(str(70)+str (100))  type (a) $\rightarrow$ froat $O(p \rightarrow 70.00)$

Ex:worlde a proposition that adole the diffes in a Rdpg. homber Eg it the Proportions 35, then the 0/p Shook be 3+5=8. X01:tero-difft\_number = input () Point (type (two\_diffr\_number) Hirst-digit = int (too\_digit\_nomber[0]) Second-diffe = Prot (kero-diffe-nomber [1]) two difft nomber = Host difft t second-diffe point (two\_digit\_nomber) Matternatical operation 3+5 -> Add 7-4 -> SOD 3×2 -> MOI Print (6/3) → Div Ly O/D of division is always in feat > 0/p-2.0 2 \* \* 2 - 9 exponential power R PEMDAS ? Pagenthesis - Exponential - Multiplication 206+ +> Right - Division & Direction > - Addition - subtraction for virualization) EX:understanding Print (3 x 3 + 3/3 - 3) 1 9+3/3-3 thorny DE 9+1.23 10-3 7.0

for the same mathematic equation, how can I get to op as 3.0 Parentheris print (3x(3+3)/3-3) imporgance O/P->3.0 Ex! write a proprian that calculates the Body Mass index (BMI) form a users weight so height. BMI = weight (kg) height (m²) 201: height = input () weight = inpot () weight\_as\_int = int (weight) height\_as\_toot = float (height) bmp = weight as\_int/height\_as\_float \*\* 2 broil = coefgnt\_as\_Pnt/Cheight\_as\_float \* herght\_as\_fooat) bmi-as-int-int(bmi) point (bmi-as\_int) Number manipulation 3, F-strings:-Print(8/3) O/P -> 2.66666665 Print (int (8/3)) 0/p-> 2 Point( oound (8/3)) 0/p → 3 (42.6) point ( odord ( 8/3, 2)) OIP -> 2.67 (42.666) no. of places as decimal Paint (000nd (2.6666666, 27) 0/P -> 2.67 Print (2/13) 0/p→2 ® Hoat use will get it in division, inorder toget it as int use thoors division

Point (type (8113)) Olp -> Put Point (44/pe (8/3)) olp -> twat Proint (+4PR (4/4)) Olp -> float result = 4/2 -32.0 DEBUIL/= 2 => DEBUIL = DEBUIL Point (resport) ->0/p->1.0 Score =0 Score = Score +1 ( ) score +=1 Score -=1 Score #=1 Score /=1 proint (score) Score = 0 print ("Your score (s" + score) -> 0/p > Errors point ("Yours score Ps" + str (score) - o/p=)~ J-string Score=0 height = 1.8 iswinning = Tome Point (f' 4000 score is 2 score f) -> Your score is 0 Point (+ your scare Ps & scores and heights & height and winning is always zishinning? Ex!-Your life in weeks and realized just how little time use actually have - Tim orban

Your life in weeks and realized just how little time we actually have - Tim water create a problem using maths and t-string that tells us how many weeks we have left, If we live ontill 90 years old.

age = input() afe = int(age) no\_of\_weeks\_per\_year = 52/ no\_ot- years\_form\_90 = 90 - age no-100+- weeks we live = no-of-years + town - 90 \* no-of- genocets per-years point (+ you have 3 no coeeks we live g weaks left!) Quiz:your se a compoter what will this line of code point) print (6+4/2-(1×2)) 3× 6+ 2.0 - 2 6.0 V 8.0 X 8.0 - 2 => 6.0 5 X what is the data type of the result of the variable a in the tollowing line of code a = int ('5')/int(2.7) Put x 5/2 425/ Hoot ~ Sto X x lood which of the following lines of code gives error? age = 12 Proint ('you are + Hoge + 'Years old') age = 12 Point ( I you are gage greates od!) name= input ("what is your name?") Print ('Hello, trame) name= fapor ('what is your name?') Pornt (+1 Hello, grarre 3')

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Project:-
 print ('Welcome to tIP calculators!)
 bill = impor ("corner was the total bill ? Rs: 1)
 bill = float (bill)
tip = input ( 'How much tip would you like
       to give ? 10, 12 00 15? 1)
 tip = Put (tip)
people = int ( 'How many people to split the bill? In
bill with_tip = tip/100 * bill +bill
Point (bill with tip)
bill person = bill_with_tfp/people
Arrive ( sound ( bill - person) 7
profit ( If Each person should pay stind {1-1)
 > though = "S: . 2+3" tomest (bill-person)
                        If we need to toronal
                           the display like 31.6,
                          but meed a decimal point
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