	UTO1: INTRODUCTION TO PYTHON	<u>25/02/202</u> 5 L2
	TDE - Anaconda / Google Collab	
	(> Jupyter Notebook -> extentision: .ipyt)
	UMP X	
	Cell- Where small codes are written in	"vovter
	Notebook.	J / ' /
	LIBAARY: Pandas, Numpy, matplotlib	
	6 pip - Installation command of a	lib.
	PYTHON: (Features)	
	(1) Open Source	
	(2)00P	
	(3) Interpreted language	
	26.	02.25 L3
	import pandas - Example for ch	neckino.
	pandas. Version - version.	
		÷.
		0
	To check type	
	and the state of t	79
- 17	type (a)	
* 1x /		
	literal: Const. value, contain digit	s; decimals
	floating. No , b/w it.	
	1024 Literal	
* , ,		
	Sequence of a	ny char
	type(a)	0
P	≥: int.	4

0.1124 1,124

≥: 0·1124 ≥: Error

Range & Overflow:

int 2 Bytes -32767 to 32768

char 1 Bytes -127 to 128 0 to 255

Bin. of 20

- · No limit the size of an int
- · Floating have both limit & limited precision
- Double precision standard format (IEEE 754). 10 to 10 for floating range. W/ 16 to 17 digits of precision.
- · Multiplication of two values can create a overflow situation.
 - 1.5e200 * 2.0e210 # overflow situation >: inf
- -> To overcome the overflow situation, we have to increase/change data types.

Underflow: If no. is 10 then its an underflow situation Underflow < (-10-302) > Overflow

(: situation) 10302 -> (* situation) Built in Format Function: Its used to produce a numeric string version of the value containing a specific no of decimal places. Syntax: format (value, ivalue) format (12/5, 1.2f1) # :2f' means after ≥: '2·40' # two place format (1/3, '.3f') 2: '0.333' # for very large number format (2 * * 100, '6e') # * * exponential # symbol. ≥: '1.26765le + 30' tan = 0.08 print (Your cost: \$, (1+ tax) *12.99) print (Your cost: \$ ' format ((1+tax) + 12.99) >: Your cost: 14. 029200000001 Your cost: 14.02

/	/
 /	/

A sequence of char. delimited by a matching pair of either single (') or double ("") or triple quotes (").

· Must be contained all on one line except when delimited by triple quotes.

Representation of charcters values:

UTF8 & ASCII (0-255)

Capital: 65 - Start

Small: 97 - Start:

Numbers: 48 - Start

ord ('1') # Ascil = ord value

>: 49

chr (97)

≥: a

Control Charaters: Special chars that aren't displayed on the screen. Use for controlling the display output. [escape sequenc].

In -> New/Next line

String Formating: Same format for, discussed earlier.

Syntax:

format (value, format-specifier)

format ('Priyanshu', <20') # left justified format ('Hello', '>20') # Right justified

>:' Hello'

format ('Hello', '120') # Centered Justified

>:' Hello Implicit & Explicit Line Joining To Reduce line tracking, its better to use a format (Ison format) etc. 's' is used for joining two lines. _nam = "Rian" print ('Name: name, 'Age: '-age, 'Identity No: -id) >: Name: Rian Age: 18 Identity No: 110 Le Emplicit line Joining by usin 'l' character yr-birth = 2008 avg_nums = yer = 31560038 month - birth = 2 NumofSec = (C. yr-birth - 1900) * avg-nums -yer)+ (doonth-birth -1)*)ava

27/2/25

keybord ip for ints.

a = int (proput ('enter the value of a:')) print (4:0)

2: Enter the value of a: 5

By default input function reads input as a string.

OPERATOR: Its a symbol Represent an operation that may be performed one or more

Operands.

Operator

Uranary

Binary Arithemetic One operand two operand (+, -, *, /) req. with addition operator (./. (- Remainder)

y=5 n=10

print ('n//y = ', n//y) # truncating division
or floor division

>: 2 z=8 print ('n/o, z'=', 2./.z)

print ('2+ 2', 2+2) # Poper

	L5
	COMPUTATIONAL & PROBLEM SOLVING
	# Fn Wout argument
_	det hell(): < function defination
	print ("Hello")
	print ("How are you?")
	#importing & using
	hell() # Function calling
	2: Hellow
1	How are you?
\int	# Function with argument.
	P="User"
	def greet(p)
	print ("Hi"p)
	<u>>:</u>
	greet (p)
	2: H: User
	Hadeling of path of a program (Goolgle Collab)
	· pythor /conter/15-code/test.py
	· P
-	

1/3/25