	Tathastu Scholar Program
Teacher's Sign / Remarks	Tython
	Data types
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	Data type are the classification of what  of represents the kind of the Value that tells what  of represents the kind of the Value that tells what  of represents the kind of the Value that tells what
	of represents the kind of the Value that tells above of represents the kind of the Value that tells above of operations can be performed on a particular data. Sonce operation can be performed on a programming.
	Operation can be performed on a programming. everyting i an object in python programming.
	every standard data type in pylnon
	everyting i an object in prima everyting everyting everyting everyting everyting everyting ev
	1. Numeric
	2. Segnence Type
	3. Booleon
	4. Bet
	5. Dictionary  ** Numerical data type represent data which has numeric
	Numerical data type reports
	111-1-A
	Value.  ex : a)Integer: The Value is suppresented by Ent clau.  ex :a)Integer: The Value bositive 63 negative value cors
	ex : a)Integer : The Value is nepresented by float claur.
	ushale nomber ex: a = 1 's prints
	o movemented by float clau.
	b) float -> The value is supresented by floating both  > 2t is a real number with floating both  representation ex: b = 1.1; prid (typelb))  representation ex number is supresented by
	of a real number with floating to
	representation ex : b = 1.1 ; pri (44 pero))
	de number à siepresented by
	alox Number > comp
	e) complex Number > complex number à siepressented by  complex day  complex day  complex day
	Complex classed as Great part)+  Sit & Specified as Great part)+  Complex classes as Great part)+
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2. Degnena type. GX: WA It û the ordered collection of similar on different 5. Diction data type Types are a Strong contair b; List ( c. Tuple. a. Obtring -> A string à a Collection of one or more characters put en a bengle quote/double quote or thrible quote Voqlabl ex: a = "Sumana" Store b. List -> It is a Ondered Collection of data enclosed within a Square bracket and Seperated by Varia  $\rightarrow ex: b = [1, 2, 3, 4, 5]$ 1. Vario C. Tuple -) It à a Ondered collection of data enclosed within a parentheir and deperated by Comai g. /n ex:  $c \neq (1,2,3,4,5)$ 3. Boolean -> It is one of the built on data types provided by python which represents 3. Va i.e True (or False. 4. Va ex: 17.1==1 Trne 4. Set A set à an unordered & nutoble nutable collection of unique elements.

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5. 3

ex: my-set = 81, 2,33 5. Dictionary -> A Pt & an unondered and mutable python container that stone mappings of unique keys to Valne ex: a = { 1: "Sumana", 2: "bhanu", 3: "harish"} Valables A python voulables is a reserved memory location to Store Valne. Variable Nouling Rule en Python 1. Vassiable nance should be start with number (a-z, A-Z) or underscore (-). ex: age, Age, -age 2. In Vontable name, no special characters allowed other than underscore (-) 3. Vancable are care sensitive ex: Age and age different 4. Variable name can be have nomber but not at the beginning. Ex: Agel 5. Varrable name Should not be a python Keywords Keywords are also called as reserved words. ex: pau, break, continue et....

Day Eable 1 telaration onlpn1 = 100 a = 100 prent (a) Redeclare a Vorsable 0 = 100 output -> 'AECS jaduguda' print (a) a = 'AEcs Jadugada print (a). Concatenate Variable b = " = xy" print (a + shr(b)) Delete a Voriable del (a) ontput - NULL. A pylhon for loop Pherales over an object until LOOPS that object à complete. There are (1) while loop (a) for loop (3) Nested loop.

1 while loop In python while loop & ned to execute a block of Statements repeatedly until a given condition is Satisfied. ex count = 0 while (count < 3): count = count + 1 prid ("Hello Gumana") ontput. Hello Sumana Hello Sumana Hello Bumana. A for loop & med for Plerating over a sequence ex: fruit = ["applex", "banono", 'cherry"] for x in fruits: bring (x) output apples banana cherry A nested loop & a loop that occurs within 3. Nested loop another loop, structurally similar to nested if statement

List in Python A list is a data structure in python tat & mutable, ondered Segnena of elements. ex: a=[1,2,3,4,5] Dictionary In pylhon A dictionary i an unordered and mutable py container that store mappings of unique key to val ex: b = & "a":1, "b":2, "c":33. Functions en Python A function & a block of code that only run, when 2+ 28 called. There are 4 types of Functions en python orgament and no return by 1. Python Function with no onlow. ex: a = 20 The sum is 50 b = 30 Sum = a+b print (" the sum i : ", sum) 2. Function with no organient and with return Value ex: a=10 6 = 25 Multi = a \* b return Hult Point (" The mulplication result is ", Multi)

## output The multiplication result & 250

3. Python Function with argument and No return Whe.

def Multiplications (a,b): Mulh = a \* b

prent ("The result is:", Multi)

Multiplication (10,20)

profino

The result is: 200

4. Function with argument and return Valne

def Addition (0,6):

Sum & = a+b

print (" The result à:", Addition (10,00)) return Sum

The result & : 30