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In []:	Data + Types>Represents the type of Data that we are using in our program. That we are using inside a variable
In []:	Note> In python we need not to define the data explicitly Internally PVM will automatically determine the datatype and based on that datatype memeory will be allocated at the runtime PVM> Python virtual machine
	Important Functions type()> that is used to give the type of data that we are using inside our program
	Example
In [4]:	<pre>print(type(x)) y="Pratyush Srivastava" print(type(y)) <class 'int'=""></class></pre>
	Types of Datatypes
In []:	Types of Datatype in Python? 1.Numeric Datatype: Int, Float , Complex 2.Sequence Datatype : List, String , tuples 3.Boolean Datatype: True and False 4.Dictionary
	Numeric Datatype
In []:	Numeric Datatype: Integer Datatype> Represents the integral values Positive Integrals> 0,1,2,3,5, Negative Integrals> -1,-2,-34,-5,-6,-7,-7 Note: If we want to represent any data without decimal point then we will use integer datatype.
	In python there is no any limit for declaring the integar datatype Examples of Integer Datatype
In [5]:	
Out[5]: In [6]:	x=-99
Out[6]:	<pre>int</pre>
	Float Datatype
In []:	Float Datatype> represents that floating point values(decimal format)> float positive numbers> 0.0,0.1;> float negative numbers>-1.0,0.2
	Examples of Float Datatype
	<pre>x=10.5 type(x) float</pre>
	x=-10.5 type(x) float
Out[8]:	Complex Datatype
In []:	<pre>#Complex Number A number which is in the form of: a+bj a-> real part(real number) b> imaginary(imaginary number) j^2>-1 j> (-1)*1/2</pre>
	Example of Complex Datatype
In [2]:	<pre>x=10.0-20j type(x) x.imag</pre>
Out[2]: In [1]:	20.0
	x (10-20j)
In [3]: Out[3]:	x = 10+20 type(x) int
	x=10+20j type(x)
Out[4]: In [5]:	<pre>complex y=10+30j</pre>
To [].	<pre>x=10+20.0 print(type(y)) print(type(x)) <class 'complex'=""> <class 'float'=""> Note 1: imag is used to access imaginary part of complex number</class></class></pre>
In []:	real is used to access real part of complex number Note 2: Complex datatype are used in scitific application(scientific computations) thatswhy nasa and drdo are usi are preferring python as there first programming language.
In []:	Boolean Datatype Boolean simple means either true or false. Internally True is equal to 1
In [7]:	Internally True is equal to 1 False is equal to 0 x=True print(type(x))
In [8]:	<pre>print(type(x)) <class 'bool'=""> x=True+True</class></pre>
Out[8]:	x 2
In [9]: Out[9]:	<pre>x=True+False+True+False-False-False-False type(bool(x)) bool</pre>
	x=True+20 x
Out[10]:	String Datatype
In []:	Strings> String is the sequence or a collection of characters within single quotes or double quote. Note:1. If you are representing anything within a single quotes(' ')/Double quotes(" ") than that is always be considered as a string in python. 2. In python we don't have char datatype if we want to represent a single character in python then that is also be considered as a string. In Java we can represent char datatype with the help of single quotes('')
	In Java we can represent String with the help of double quotes(" ")
In [38]:	Example of String Datatype x='Avinash=10' type(x)
Out[38]: In [30]:	
In [30]: Out[30]:	type(x)
In [31]: Out[31]:	type(x)
	x="True" type(x)
Out[32]: In [33]:	x="10+20j" tupa(v)
Out[33]:	<pre>type(x) str</pre>
In [35]:	<pre>x="h" print(type(x)) <class 'str'=""></class></pre>
In [36]:	<pre>x='h' print(type(x)) <class 'str'=""></class></pre>