

## Samuel Ashole Veelmological Vertilie

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Year .15t year .2nd&m. Date .31/05/23.

	Oll with dr. indexed to coll .		
	Q! what do understand by software in computer  Science and how can you categorize the		
	Sof-tuere ?		
And the second	Ans In Computer science software sufers to a		
	collection of programs data, and instructions		
Mantanar Mantanar	that enable a computer system to perform		
an minus	Specific tasks or functions. It emanposses		
Manual para	all the intengible components of a computer		
	system, including applications operating system,		
()	device drivers, utilities, and more software		
,,,,,,,	is a crucial component that allows were		
anamad) Salahari	to interact with and utilize the capabilities		
	of hordware.		
aaaaaayii.			
dham.	Softaure can be categorized into several types		
	based on different (riteria.		
70	(1) System Software -> System software provides a		
	platerom for running application		
$-(\Lambda)$	and manages computer hardward susowices It		
	included operating system (eg > windows, macos,		
	Linux), dévice derivers (eg - dist, utilities,		
$I \cap I$	system diognostic tools)		
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		
	(2) Application Software > Application software refers &		
MAHAKAL Stationery	(2) Application Software > Application software refers 3		
SHERPURA 9907028941	to perform Specific tasks of mare size, rate size,		
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provide functionality to users It includes a wide ligned of software such as word procesors, spreadsheets, graphics editors media players, database management System and most (2) write five feuturesus of pythen that make it user frueroly. Easy-to Read Synfax: - Python has a simple and treadable syntax making it accession beginners and explorened Clear and Expressive code - python emphosize Consist code. Extensive Standard Library - python comes with of modules and fin (+ish for various lask. 4) Dynamic Typing and Automatic Memory Management: - python automatically differmines variable type and handles memory



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	5) Large and Supportive Community - Python has
	a communisty to support the different
	steems and field because python has
3	very fast fragramming language
(madam)	231 List the various numerical data type in
	pythan with example:
" //	1) Integer (int):- It supresents whole numbers,
	position on negative curthout
	ong deamal point.
	0
	ex = n = 10
anamaya.	y = -5
dlagium. san	
	2] float: - It supresent real numbers with a
erianistas est	decimal point.
$\int \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	er - 9 = 3.14
X	b = -0.5
/ )	0.4.7
Ď	3) complex - It supresents humbers in the form
	of atbi where a and b
	imaginary unit  PAGE 3 9
AKAL onery	
PURA 28941	$ex \rightarrow z = 2 + 3 + 3 + 1$

4) Boblem: It supposeds the touth values .....aplications.... pe = falle I be present decimal numbers, enith om detimal import Decima Occipial ('3.14159!) ite the output for the following expression odes using a pythan interpreter. 1) print (18%6) (2) if 12+5\*9==183. (4+101) (4) hum = 5 > 4

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T I D I D I I I	( *****

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	Tear 1211 1200 1200 1200 1200 1200 1200 120
	1) Print (10 %6)
	2) IF 12+5*9==1531
	output: - No output (there is no print statement)
	3) print ("I7(" + 101)
Manual dimensi	autrut: - Ennan: - Type Ennon
	J. pl. dest. Control of the second se
(madam	4) num = 5>4
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	print ( & true ")
and della	print (nym)
	else:
aaamay	print ("Fally)
	output: - true
	Adul
/ A	
	Osbilet hum I and num? be two non-empty
	append the last element of nums 2 to the
	append the last of numeral of numeral to the
	end of nums 1.
	2) List is motable and typle is immutable.
	Justity the Statement with example.
HAKAL ationery	97
HERPURA 07028941	2) List is motable and typle is immutable.  Justify the statement with example.  PAGE 5 9

And I (1) To append the last element of nums 2?
to the end of hums 11 ih python
we can use the append 11' methods
ex > list & alle mutable in
ex > humst. append (nums 2 [-1])
(ii) list are mitable in python:
Example to demonstrate mutability of lists:
imy - list = [1, 2, 3]
my_1/2/ [0] = 10
print (my list)
$O/\rho \rightarrow [10, 2.3]$
(ii) typples are immutable:
Example to demonstrate
Immutability of typles:
my dup my tupple = (112,3)
my tupple Co] = 10
0 / Ir
O/P TYPL ENGEN
O/I -> Tyll Editor
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