DATE: 20/03/2024 Submitted By Roll No BSAT-144 Class RSAI - 4th Sem

	Subject: Prog For AI	
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-	Submitted To: Ms. Anab Batael	
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	ASSIGNMENT # 02	-
	- Alexandre de la companya del companya de la companya del companya de la company	
Q;-1	Explain the concept of zip () function in python with example.	
	python with example.	-
4.	the sale of the sa	
Hns	Zip() functions	
	The sip() function in python is	
	used to comp combine two or more	
	iterables (list, tuples, etc) element-wise into	
<u> </u>	tuples. It returns an iterator of tuples	
	where the i-th typle contains the	
	i-th element from each of the input	À
	iterables. It the input iterables are of	
	different clength, sip () stops when the	
	shortest iterable is enhausted.	
	trample:	
	Code: Output:	d'a
	D1=[1, 2, 3]	
	02=[a','h','c'] [(1,'a'), (7,'h') (3;c')	
	2ipped = 2ip(01, 02)	
	2. ligt = ligt (Eipped)	
	print (sligh)	

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0	Explain the concept of: default dict in python with example.	
	in nothing with example.	
	In barren min combar	
	Default dict:	
	In python, defaultdiet is a	
	In python, desquarates is a	
	gubalogs of the built-in dict closs.	
	It's a dictionary-like container that	
	provides a: défault value for each key.	
	This means that if you try to access a	-
	key that doesn't exist, it will not roise	1.52
	a Key Error Die like, a standard dictionary	
	would. Instead, it will create the key	
	and resign it a default value	-a-1
	specified by the user.	
	default dict is particularly werel	
	when dealing with scenarios where you	
	need to initialize dictionary values with	
	specific defoult types, especially for	
	counting occurences or grouping items.	
1	and the second s	
,	: Lynes !	
	· thund in this	
	II .	

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0:-3	Output & 1 line explanation of the following codes.	
	the following codes.	-
	and the second of the second o	
Ans	i. Output: ['a':1, 'b':2, 'c':3]	-
	Explain:	
	The code creates a dictionary where keys	
	are elements from the 'keys' Dow liet and	
-	values are elements from the values dist,	
	wing dictionary comprehension along with the 'zipl) Runction.	
	the zipl tunction.	
ii.	(banana': 7, 'date': 10}	
	Good: date: 10)	
	This code create a new distribunción	
	with fruits having a quantity greater than	
	5 by filtering the original dictionary.	
	3 serving the original attributy.	
jii.	Output:	
	(1,2,3)	,
	('one 'two', 'three')	
	Explain:	
	This cade take a list of typles	
	Containing pairs of numbers are their words,	
	then we "zip (*pairs)" to reporate the	
	numbers and and words into two separate	
	list, and finally print out these two lists.	
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iv.	Output:	
	[('Ala' 96) ('D' 1'00) ('CL A 150	17
1	[('Alice' 85) ('Rob', 92) ('Charlie', 78 <zip 0x785bb5df2c00="" at="" object=""> {'Alice': 85, 'Rob': 92, 'Charlie': 78}</zip>	<b>/</b> ]
	5'Dlice's 86 1011 00 1010 00 >	
	{ Alice': 85, 'Bob': 92, 'Charlie': 78}	-
		int
	into tuples converts them to a dictionary and prints the result.	
1	into tuples converts them to a dictionary	
1	and prints the result.	
٧.	Output:	
ν.	1 P (11.1 ( 2 A 14.1 'S'O 1'	-
	defaultdict ( Ccloss diet > ( Fruit:	
	defaultdict (Colors 'list' > E'fruit':  ['apple', 'bonana', grape'], 'vegetable':  ['carrot', 'celery']])	
	[ Carrot, Cellery ] )	
	[ ]	-il-
	Coloss 'collections. default dict' >:	
	Collections default dict /:	
•	The cade huilds a dictioner with	
	items grouped by category, test for a	
	missing colegory, and verifies its type.	
vi.	O L L	151
VI	Omba;	1
-	Gal:	Awa
Ministra	Tie of a solution	
	this python code concisely extracts	
-	The first betters of each word in a	
	the state of the s	-
	the unique letter set.	
	The same of the sa	-

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vii.	Output:	Marie de la companya
	{1,2,3,4,5,6,7}	
	Explain:	
	The code efficiently combines	and the state of t
	unique elements from multiple gets into a	
	Pingle set using set comprehension.	
viii.	Output:	
	{1,2,3,4,5,6,7,8,9,10}	4
	Explain:	<del></del>
	This code combiner three unique	
	sets into a single set set contains	
	containing all distinct elements.	
jx.	Output:	
	{4,5}	
	Explain:	
-	This code defines sets, users set	
	comprehension, to finds elements in touth,	
	both, and stores the intersection in a	
	set for printing.	
х.	Output:	
	(2,3,4)	
•	Explain:	
	This code prints a slice of typle	145
	starting from index 1 (inclusive) and ending	
	at index 4 (exclusive), so it prints elements	
	2,3 & 4 from the tuple.	EP
	<u></u>	