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MID-TERM EXAMINATION (Course Name :CSE-AI/AI&ML) (Semester : II) (May, 2023) OFF LINE mode

Subject Code: BAI-104		Subject: Introduction To Data Science			
Time: 1 1/2 Hours			Maximu	m Mark	(5:
Note:Q. 1 is con	pulsory.				
Q1	100	PARTY NAMED IN		(2.5*4	1)
(a)"Databa	ase contains data in i	ts raw form	at". Is this statement Valid? Justify.		
			lusion, Further mention how are they	Catalogue and	
interlinked		sity and me	usion, ruttier mention now are they	1000	-13
	code using NumPy fo	r following	nrohlem		
You work	as a meteorologist V	our job is to	maintain hourly rainfall data in	1	JP.
millimeter	s in the array, rain_r	nm by hou	5		1/2
On a parti	cularly rainy day, you	get the res	ults stored in the np array:		1
The second second second				1000	
(i)At the e	nd of the day, you ar	e asked to re	eport the number of hours with heavy	1000	1
rainfall (i.e	a., rainfall greater tha	in 4 mm).		200	
(HIV-1111		W	4 4		
(ii) rou wa	nt to know how muc	h it rained d	uring the even-numbered hours.		1
(d)Mrito	mathematical in				-
the name	s in alphabetical orde	struct the fol	llowing dataframe and then sort	No. of Lot	1
	The second of the second of	· Far		10000	
0	tollno name	ECO	Maths	-	100
1	1 Arnab 2 Kritika	18	57 45	600	
2	3 Divyam	51	37	- 100	1
3 4	4 Vivaan	40	60		8
4	5 Aaroosh	18	27		105
Q2 (Attempt a	ny Two Parts) UN	IT-1		-1113	(5,
1 1	122				1
The state of the s	The second secon		science process? Explain		
(6)Explain	the different C's tha	t are require	d to be followed while handling data.		
		esponds to t	he accuracy of the considered Data". Is t	his	tei
	true? Justify.				
(ii) Exp	lain the different V's	of Big data.		565	
00 14				1	
		VIT-2		1	5,5
			ce values inside an array? Give an examp	le for ea	ach
(b) Write	a python program to	construct th	ne following dataframe :		
	Player Year	Points			
9	Superman 2000				
1	Batman 2000				
2 3	Thanos 2000 Batman 2001	45 65			
4	Thanos 2001	76			
5	Superman 2002				
6	Batman 2002	23			
7	Thanos 2002	78			
8	Black Widow 2003	89			
9	Batman 2004	76			
11	Thanos 2004 Superman 2005	92 87			
water the same					
Fellor	m the following func		COLD EDSCRIPTION OF THE PROPERTY OF THE PROPER		
and and	Myste at	ients and gro	oup them player-wise.		
200	Write a function to	print the pla	ayers with points above 50.		
(111)	write a function to	print last 4	elements of the dataframe.		

(C) Write code using NumPy

Using the stock data set, analyze the data to programmatically print answers to the following business questions.

First few observations of Amazon stock dataset in csv format are:

Date Close Last Volume, Open, High Low -

12/31/2021/3334 34/2391519/3379.12/3387/3331.17

12/30/2021 3372.89 1879155 3394 3417.76 3370.48

12/29/2021 3384.02 1787702 3416.8 3424.24 3372.0101

(i). What was the lowest and highest opening price for the AMZN stock?

(ii). How many days saw a high trading price that exceeded 3,500?

(iii) Did the AMZN stock ever have an opening price less than 2,500? Your answer must include the phrase "did have" or "did not have."

(iv) What were the top 3 opening prices for the AMZN stock?