KENDRIYA VIDYALAYA SANGATHAN LUCKNOW REGION

2ND Pre- Board Examination (2020–2021)

Class-XII (SET-2)

Subject- Informatics Practices (Code-065)

Time Allowed: 3 Hours

Maximum Marks: 70

General Instructions:

- 1. This question paper contains two parts A and B. Each part is compulsory.
- 2. Both Part A and Part N have choices.
- 3. Part-A has 2 sections:
 - a. Section-I is short answer questions, to be answered in one word or one line.
 - b. Section-II has two case studies questions. Each case study has 4 case based sub-parts. An examinee is to attempt any 4 out of the 5 subparts.
- 4. Part-B is descriptive paper.
- 5. Part-C has 3 sections:
 - a. Section-I is short answer questions of 2 marks each in which two questions have internal options.
 - b. Section-II is long answer questions of 3 marks each in which two questions have internal options.
 - c. Section-III is very long answer questions of 5 marks each in which one question has internal option.

	Part - A	
	Section - I Attempt any 15 questions from questions 1 to 21	
1.	In a dataframe, axis-0 is for (i) columns (ii) rows (iii) rows and columns both (iv) None of these	1
2.	What type of information a web page can contain?(i) Text(ii) Images(iii) video(iv) All of these	1
3.	Which of the following is not a type of cybercrime?(i) Data theft(ii) Forgery(iii) Damage to data(iv) Installing antivirus	1
4.	A device used to connect dissimilar network is called	1
5.	Write the output of the following SQL command. SELECT TRUNCATE(745.38,1) (i) 745.3 (ii) 745.0 (iii) 746 (iv) 745.4	1
6.	Creative creations of mind such as patents, trademark and copyright are called	1
7.	DataFrame is mutable as well as mutable.	1
8.	Write a command to delete the column "SportsFee" from a DataFrame "FeeRecord".	1
9.	Unsolicited commercial email is known as (i) Malware (ii) Virus (iii) Spyware (iv) Spam	1
10.	by everyone on the web.	1
11.	Given a Pandas series called Sequences, the command which will display the first 9 rows is a. print(Sequences.head(4)) b. print(Sequences.Head(4)) c. print(Sequences.heads(4) d. print(Sequences.Heads(4))	1

12.	Given the following Series S1 and S2:	
	S1 S2	
	A 30 A 78	
		1
	C 78 C 53	
	D 40 D 49	
	Write the command to find the difference of series \$1 and \$2	
13.	To prevent unauthorized access to and / or from the network, a system known	1
	as, can be implemented by hardware and / or software.	
14.	The avg() function in MySql is an example of	
	a. Math function	1
	c. Date Function	1
	d. Aggregate Function	
15.	Which of these is not a communication channel?	
_	(i) Satellite (ii) Microwave (iii) Radio wave (iv) Wi-Fi	1
16.	Which function is used to rename the existing column or index?	1
	(i) std() (ii) hist() (iii) groupby() (iv) rename()	•
17.	The max() function in MYSQL is an example of	1
40	(i) String function (ii) Math function (iii) Date function (iv) Aggregate function	4
18.		1
19.	with the values, ' A', 'B', 'A', 'A', 'B', 'A' , to the DataFrame. Help her choose the command to do so: a. df.column=['A','B','A','A','B','A'] b. df ['Grade']=['A','B','A','A','B','A'] c. df.loc['Grade']= ['A','B','A','A','B','A']	1
	d. Both (b) and (c) are correct	
20.	Prachi has given the following command to obtain the highest marks Select	
	max(marks) from student where group by class;	
	but she is not getting the desired result. Help her by writing the correct command.	1
	a. Select max(marks) from student group by class; b. Select class max(marks) from student group by marks.	1
	c. Select class, max(marks) group by class from student;	
	d. Select class, max(marks) from student group by class;	
21.	A mail or message sent to a large number of people indiscriminately without their consent is called	1
	Section -II	
	Both the case study based questions (22 & 23) are compulsory. Attempt	
	any three sub parts from each question. Each sub question carries 1 mark .	
22.	Consider the following DataFrame df and answer any four questions from (i) to (v)	
	Rollno Name Eng Hindi Maths Science	
	1 Harish Kumar 50 47 45 40	
	2 Guneet Arora 49 46 47 48 2 Naveba Singh 40 45 50 40	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	5 Divya Nagar 43 38 42 41	

	(i) Write o	down the c	command	that will give	e the follo	wing out	put:		1
	Rollno	1		Ũ					
	Name	Divya	Nagar						
	Eng	40	•						
	Hindi	38							
	Maths	42							
	Science	40							
	Dtype: Ol	bject							
		-							
	(a) print(c	df.min)							
	(b) print(d	df.min())							
	(c) print(c	df.min(axis	6=1))						
	(d) print(d	df.min, axi	s=1)						
							_		
	(ii) The te	eacher nee	ds to kno	ow the marks	s scored b	by the stud	dent with	roll number 3.	
	Help her	to identify	the corre	ect set of sta	tement/s	from the g	given opti	ons:-	1
	(a) df1=df	f[df['Rolln	o']==3]						
	p	rint(df1)							
	(b) df1=d	f[Rollno==	:3]						
	pr	int(df1)							
	(c) df1=di	f[df.Rollno)= 3]						
	pr	int(df1)							
	(d) df1=d	f[df.Rollno)== 3]						
	pr	int(df1)							
	(:::) \ M /b:al	h af tha fa		totomontlo w	مله منابع الله	v t -	umber of	values in each	
		n of the fo	Howing S	tatement/s w	ill give th	e exact n	umper of	values in each	4
	column o	n the data							I
	I. 	i print(di.c							
		i. print(al.o							
	 	n. print(al.	count/avi	ie='inday'))					
	ľ	v. print(ai.	count(ax						
	Cho	ose the co	orrect ont	tion.					
	(a) k	ooth (i) and	4 (ii)						
	(b) (b)	only (ii)	u (II)						
	(c) (c) (i). (ii) and	(iii)						
	(0) (b)	i), (ii) and	(iv)						
	() (.,, (, aa	()						
	(iv) Whicl	h of the fo	llowing c	ommand will	l display t	he colum	n labels c	of the DataFrame?	
	(a) p	orint(df.co	lumns())						1
	(b) p	orint(df.co	lumn())						
	(c) p	orint(df.co	lumn)						
	(d) p	orint(df.co	lumns)						
	. , 1	•	•						
	(v) Ms. Pa	athak, the	class tea	cher wants t	o add a n	ew colum	n, the tota	al of 4 subject	
	marks, na	amed as 'T	fotal' to the	he DataFram	e. Help he	er to write	the com	mand to do so.	1
	Consider	the table	STUDEN	T given belov	N:				
23.	RollNo	Name	Class	DOB	Gender	City	Marks		
	1	Anand	XI	06/06/1997	М	Agra	430		
	2	Chetan	XII	07/05/1994	м	Mumbai	460		
	2	Geet	XI	06/05/1997	F	Δøra	470		
		Drooti		00/03/1357	- ·	Mumbai	402		
	- 4	Freeli		00/00/1995	Г 		472		
	5	Saniyal	XII	08/10/1995	M	Delhi	360		
	6	Maakhiy	XI	12/12/1994	F	Dubai	256		
	7	Neha	X	08/12/1995	F	Moscow	324		
	8	Nishant	X	12/06/1995	Μ	Moscow	429		
		· · · · ·							

	Anar Chet Geet Pree	nd an ti						
i. sele ii. sel class=' iii. se city="1	ect name lect nam 'XII'; elect na Mumbai";	from ne from me fro	student wh student w m student	nere cl where n where	ass='XI ot clas city="A	' and o s='XI' gra" O	class=' and R	XII';
iv. se. "Mumba:	lect nam i");	le irom	student v	wnere c	ity in("Agra"	/	
b. Both (i c. Any of d. Only (i	ii) and (iv).the option:ii)	s (i), (ii) ;	and (iv)					
What will Select	/ be the ou * from	tput of tl studen	h e following d t where ge	command ender =	!? :"F" ord	er by :	marks;	
What will Select (a) Rollno	be the ou * from	tput of th studen Class	he following out where ge DOB	command ender = Gender	l? "F" ord City	er by : Marks	marks;	
What will Select (a) Rollno 4	be the ou * from Name Preeti	tput of th studen Class XII	he following of t where ge DOB 08/08/1995	command ender = Gender F	"F" ord City Mumbai	er by : Marks 492	marks;	
What will Select (a) Rollno 4 3	be the ou * from Name Preeti Geet	tput of th studen Class XII XI	he following of the follow	command ender = Gender F F	F″ ord City Mumbai Agra	er by : Marks 492 470	marks;	
What will Select (a) Rollno 4 3 7	be the ou * from Name Preeti Geet Neha	tput of th studen Class XII XI XI XI	be following of the follow	command ender = Gender F F F	F" ord City Mumbai Agra Moscow	er by 1 Marks 492 470 324	marks;	
What will Select (a) Rollno 4 3 7 6	be the ou* fromNamePreetiGeetNehaMaakhiy	tput of th studen Class XII XI XI XI XI	be following of the second	Gender = Gender F F F F	F" ord City Mumbai Agra Moscow Dubai	er by : Marks 492 470 324 256	marks;	
What will Select (a) Rollno 4 3 7 6	be the ou* fromNamePreetiGeetNehaMaakhiy	tput of tl studen Class XII XI XI XI XI XI	DOB 08/08/1995 06/05/1997 08/12/1995 12/12/1994	Gender = Gender F F F F	r"F" ord City Mumbai Agra Moscow Dubai	er by : Marks 492 470 324 256	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno	be the ou* fromNamePreetiGeetNehaMaakhiy	tput of the studen of the stud	DOB 08/08/1995 06/05/1997 08/12/1995 12/12/1994	Gender =	F" ord City Mumbai Agra Moscow Dubai	er by 1 Marks 492 470 324 256 Marks	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6	be the ou* fromNamePreetiGeetNehaMaakhiyNameMaakhiy	tput of the studen of the stud	be following of the second state of	Gender F F F F F F F	"F" ord City Mumbai Agra Moscow Dubai City Dubai	er by : Marks 492 470 324 256 Marks 256	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7	be the ou* fromNamePreetiGeetNehaMaakhiyNameMaakhiyNeha	tput of the studen of the stud	be following of the second	Gender F F F F Gender F F	F" ord City Mumbai Agra Moscow Dubai City Dubai Moscow	er by 1 Marks 492 470 324 256 Marks 256 324	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7 3	be the ou * from Name Preeti Geet Neha Maakhiy Name Maakhiy Neha Geet	tput of the studen of the stud	be following of the second state where get the second state	Gender F F F F F F F F F F F F	 "F" ord City Mumbai Agra Moscow Dubai City Dubai Moscow Agra 	er by : Marks 492 470 324 256 Marks 256 324 470	marks;	
What will Select (a) Rollno 4 3 7 6 (b)	be the ou * from Name Preeti Geet Neha Maakhiy	tput of the studen of the stud	be following of t where ge 08/08/1995 06/05/1997 08/12/1995 12/12/1994	Gender F F F F	"F" ord City Mumbai Agra Moscow Dubai	er by : Marks 492 470 324 256	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7 3 4	be the ou * from Preeti Geet Neha Maakhiy Name Maakhiy Neha Geet Preeti	tput of the studen of the stud	be following of the second	Gender F F F F F F F F F F F F F	 F" ord City Mumbai Agra Moscow Dubai City Dubai Moscow Agra Mumbai 	er by 1 Marks 492 470 324 256 Marks 256 324 470 492	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7 3 4	be the ou * from Name Preeti Geet Neha Maakhiy Name Maakhiy Neha Geet Preeti	tput of the studen of the stud	be following of the second state where get the second state	Gender F F F F F F F F F F F	 "F" ord City Mumbai Agra Moscow Dubai City Dubai Moscow Agra Mumbai 	er by : Marks 492 470 324 256 324 256 324 470 492	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7 3 4 (c) Gender	be the ou * from Name Preeti Geet Neha Maakhiy Name Maakhiy Neha Geet Preeti	tput of the studen of the stud	be following of the second state where get the second state	Gender F F F F F F F F F F F F F	r F ord City Mumbai Agra Moscow Dubai City Dubai Moscow Agra Mumbai	er by 1 Marks 492 470 324 256 Marks 256 324 470 492	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7 3 4 (c) Gender F	be the ou * from Name Preeti Geet Neha Maakhiy Name Maakhiy Neha Geet Preeti Marks 256	tput of the studen of the stud	be following of the second state where get the second state	Gender F F F F F F F F F F	 F" ord City Mumbai Agra Moscow Dubai City Dubai Moscow Agra Mumbai 	er by Marks 492 470 324 256 Marks 256 324 470 492	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7 3 4 (c) Gender F F	be the ou* fromNamePreetiGeetMaakhiyNameMaakhiyNehaGeetPreeti	tput of tl studen Class XII XI XI XI Class XI XI XI XI	be following of the second state where get the second state	Gender F F F F F F F F F F F	r"F" ord City Mumbai Agra Moscow Dubai City Dubai Moscow Agra Mumbai	er by 1 Marks 492 470 324 256 Marks 256 324 470 492	marks;	
What will Select (a) Rollno 4 3 7 6 (b) Rollno 6 7 3 4 (c) Gender F F F	be the ou* fromNamePreetiGeetNameMaakhiyNameMaakhiyNehaGeetPreetiMarks256324470	tput of the studen of the stud	be following of the where get the where get the second	Gender F F F F F F F F F	 F" ord City Mumbai Agra Moscow Dubai City Dubai Moscow Agra Mumbai 	er by : Marks 492 470 324 256 324 470 492	marks;	

	(d)			
	Gender	Marks		
	F	492		
	F	470		
	F	324		
	F	256		
(iii)	Prachi ha	as given tl	ne following command to obtain the highest marks	1
	Select	max(mark	as) from student where group by class;	
	but she is	s not getti	ng the desired result. Help her by writing the correct command.	
	a. Sele b. Sele c. Sele d. Sele	ct max(m ct class ct class ct class	marks) from student where group by class; , max(marks) from student group by marks; , max(marks) group by class from student; , max(marks) from student group by class;	
(iv)	State the who are i	command n class X	d to display the average marks scored by students of each gender ?	1
	i Sele	ct dende	er, avg(marks) from student where class= "XI"	
	group b	y gender	;	
	ii Sele	ct gende	er, avg(marks) from student group by gender	
	where c	lass="XI	······································	
	having	lect gen class="X	nder, avg(marks) group by gender from student	
	iv. Sel having	ect gend class =	ler, avg(marks) from student group by gender "XI";	
	Choose t a. Both (i b. Both (i c. Both (i d. Only (i	he correc i) and (iii) i) and (iv)) and (iii) ii)	t option:	
(v)	Help Rite student?	sh to writ	e the command to display the name of the youngest	1
	a. sele	ect name	e,min(DOB) from student ;	
	b. sele	ect name	e, max(DOB) from student ;	
	c. sele	ect name	e, min(DOB) from student group by name ;	
	a. sele	ect name	pAPT P	
			FART-D	
			Section-I	
24.	Create a	Series that	at depicts Month as index and Sales as values from two different	
	Month=['	Jan', 'Feb' 000,1200,1	', 'Mar', 'Apr', 'May', 'Jun'] I100,800,1600,600]	2
25.	Consider	the decin	nal number x with value 8459.2654. Write commands in SQL	
	i round	it off to a	whole number	
	ii. round	it to 2 plac	ces before the decimal.	2
			OR	
	1			

	What is the difference between the order by and group by clause when used	
	alongwith the select statement. Explain with an example.	
26.	What will be the output of the following code:	
	import pandas as pd	
	import numpy as np	
	Data = np.array(['al','bl','cl','dl','el', 'fl'])	
	S=pd.Series(Data)	2
	<pre>print("I.")</pre>	
	print(S[:3])	
	print("II.")	
07	print (S[-3:])	
27.	Anjali writes the following commands with respect to a table employee having	
	Commond to Collection (the Collection Collec	
	Command1: Select count(*) from employee;	2
	Command2: Select count (commission) from employee;	
	She gets the output as 4 for the first command but gets an output 3 for the	
	second command. Explain the output with justification.	
28.	How is Series data structure different from a Data Frame data structure? Explain with	2
	the help of example.	
	Shuchi created a table Product having fields, P_No, Phame, Qty, Price, commission,	
29.	DeliveryDate. Help her to:	2
	(i) Delete row(s) that contain commission greater than or equal to 18.	
	(II) Delete the column DeliveryDate.	
30.	List any two health hazards related to excessive use of Technology.	1+1
	Nafisa uses her smartphone for online shopping payments and other transactions such	
24	as paying electricity bills, broadband connection charges, phone recharge, etc. What	2
31.	kind of protection should she take while doing online transactions? Websites that she	2
	visited collect what type of information about her?	
	Section -II	
32	Differentiate between accidental and deliberate plagiarism. How can we avoid	
JZ.	plagiarism?	3
	pidgidi ISIII:	
	Consider the two objects \$1 and \$2. \$1 is a list whereas \$2 is a Series. Both have values	
	What will be the output of the following two statements considering that the above	
	chiects have been created already	
33.	a print(e1 * 2)	1+1+1
	a. $p(n(s) = 2)$ b. $p(n(s) = 2)$	
	Justify your answer.	
34.	What do you mean by Identity theft? Explain with the help of an example.	
-	OR	2+1
	What do you understand by Net Etiquettes? Explain any two such etiquettes.	
35.	Write a Python program to display a bar chart of the number of students in a school. Use	3
	different colours for each bar.	
	Sample data:	
	Class: I,II,III,IV,V,VI,VII,VIII,IX,X	
	Strength: 38,30,45,49,37,53,48,44,36,46	
	OR	
	Write a Python program to plot the given bar graph to depict the popularity of various	
	programming languages. Label the graph with x-axis, y-axis, y-ticks and title.	
	Data : Programming languages: Python, C++, Java, Perl, Scala, Lisp	
	Usage= 10,8,6,4,2,1	

				Prog	ramming Lang	uage			
			lisp -						
		5	scala -						
			perl -	_					
			java -						
			c++ -						
		pyt	thon -						
			0	2	4 6	8	10		
					usage				
36.	Conside	r the tabl	e "Loan"	given bel	ow:				1+1+1
	A	cc_No A	.cc_Name	Amount	Loantype	Interes	st		
	н	ID101	Sanjeev	55000	Auto	7.65			
	н	ID102 A	Abhishek	3000000	Home	7.1			
	н	ID103	Shagun	120000	Personal	9.85			
	н	ID105	Gunjan	300000	Auto	6.9			
	н	ID106	Jyoti	1000000	Business	8.5			
	н	ID107	Aarush	1500000	Home	9.1			
	н	ID108	Lalit	20000	Auto	6.66			
	Н	ID109	Smriti	250000	Auto	11.09			
	Write SQ (i) Count (ii) Displa (iii) Displ	L comma the diffe ay the Ma lay avera	ands for t erent type: aximum a ige interes	he followi s of loan t nd Minim st rate of <i>l</i>	ng statem he bank is um amoun Auto Ioan.	ents: offering t of each	category	/ of loan type.	
37.	Different Degree a	and Cardi	inality.	ee and Ca	irdinality c	f a table	. write su	litable example of	2+1
					Section	-111			
38.	Write a dictionar	program ry:	in Pytho	n Pandas	to create	the foll	owing Da	ataFrame DEPT from a	5
		DeptId	DeptNa	me Inco	me Loo	ation			
		10	Sales	856	60 Nev	<i>ı</i> Delhi			
		20	Purcha	se 867	'80 Ko	lkata			
		30	Personr	nel 876	600 Ha	ryana			
		40	Researc	ch 899	90 Ben	galuru			
	Perform i. Display ii. Add a iii. Displa	the follow y the high new Colu ay the Da	wing oper hest incor umn "Con itaFrame.	ations of ne from tl nmission'	the DataFr ne DEPT. ' that will h	ame: have the	values as	s 15% of the Income.	

39.	Write the i) To disp ii) To rem iii) To dis iv) To dis (name). v) To con	SQL functions who blay the name of the nove spaces from the splay the name of the splay the starting p npute the remainded	ich will per e month of he beginni he day eg, osition of y er of divisio	form the fol the current ng and end Friday or Su our first name on between t	lowing operati date . of a string, " P inday from you me(fname) froi	ions: anorama ". ur date of birth, dob. m your whole name n1 and n2	5
				OR			
	Consider	a table SALESMA	N with the f	following da	ta:		
	SNO	SNAME	SALARY	BONUS	DATE OF JOIN		
	A01	Beena Mehta	30000	45.23	29/10/2019		
	A02	K. L. Sahay	50000	25.34	13/03/2018		
	B03	, Nisha Thakkar	30000	35	18/03/2017		
	B04	Leela Yadav	80000	NULL	31/12/2018		
	C05	Gautam Gola	20000	NULL	23/01/1989		
	C06	Trapti Garg	70000	12.37	15/06/1987		
	D07	Neena Sharma	50000	27.89	18/03/1999		
40.	character d) Displa e) Displa KV Cour India—"C services different same is a	r. y the month name <u>y the name of the v</u> ier Company is pla coimbatore", "Koll in different cities. branches—"Sales as follows:	for the date weekday fo anning to s kata" and ' The compa Office", "S	e of join of s <u>r the date of</u> start their re "Ahmedabac any has thei store Office"	alesman join of salesm egional offices d"—to provide ir head office i and "IT office	nan s in four major cities in e easy and fast courier in New Delhi with three ". A rough layout of the	5
		Ahmeda	s N	IT New Delhi oimbatore	Store		

Head Office - Sale	s Office	10KM				
		50KM				
		25KM				
Head Office – Koll		1536KM				
Head Office – Ahr	nedabad Office	947KM				
Head Office – Coir	mbatore Office	2508KM				
The company experts h of their offices:	nave planned t	to install th	ne following	g number (of compu	uters in eac
Head Office	100					
IT Office	25					
Store House	60					
Kolkata Office	80					
Ahmedabad Office	120					
Coimbatore Office	150					
(i) Suggest network typ sets of their offices: (a) Head Office a (b) Head Office a	be (out of LAN and IT Office and Coimbato	N, MAN, W ore Office	AN) for coi	nnecting e	each of t	he following
 (i) Suggest network typesets of their offices: (a) Head Office a (b) Head Office a (ii) Which device you computers with each o (a) Modem (b) Telephone 	be (out of LAN and IT Office and Coimbato will suggest f their offices	N, MAN, W ore Office the com out of the	AN) for cor pany to pr following c	nnecting e rocure for devices?	each of th	he following
 (i) Suggest network typesets of their offices: (a) Head Office a (b) Head Office a (ii) Which device you computers with each o (a) Modem (b) Telephone (c) Switch/Hub 	be (out of LAN and IT Office and Coimbato will suggest f their offices	N, MAN, W ore Office the com out of the	AN) for cor pany to pr following c	nnecting e rocure for devices?	each of th	he following
 (i) Suggest network typesets of their offices: (a) Head Office a (b) Head Office a (ii) Which device you computers with each o (a) Modem (b) Telephone (c) Switch/Hub (iii) Which of the follow local offices in New De (a) Ethernet Cab (b) Optical Fibre (c) Telephone C 	be (out of LAN and IT Office and Coimbato will suggest f their offices ing communic lhi for very effole able	N, MAN, W ore Office the com out of the cation med fective and	AN) for cor pany to pr following c lium will yo I fast comm	nnecting e rocure for devices? ou sugges nunication	each of th r connec t for conn	he following
 (i) Suggest network typesets of their offices: (a) Head Office a (b) Head Office a (ii) Which device you computers with each o (a) Modem (b) Telephone (c) Switch/Hub (iii) Which of the follow local offices in New De (a) Ethernet Cab (b) Optical Fibre (c) Telephone C (iv) Suggest a cable la Delhi. 	be (out of LAN and IT Office and Coimbato will suggest f their offices ing communic lhi for very eff le able yout for conn	N, MAN, W ore Office the com out of the cation mec fective and	AN) for con pany to pr following o lium will yo fast comm	nnecting e rocure for devices? ou sugges nunication	each of th r connec t for conn 1? fices loc	he following cting all th necting their ated in Nev

Х-----Х