Practice Exam #2 - Arrays & For Loops Programming Fundamentals in Java

Consider the lockers at a school. Each locker is assigned to one student. The lockers also come with a Dudley Combination Lock, whose combination is stored along with each locker number. Figure 1 shows the first 5 students and their respective data. Note: the program must work for all of the lockers contained in the school.

	stude	entNames	5	lockerNum	combinations		
0	Norman	0	123		12-49-2		
1	Ruth	1	124		40-3-12		
2	Nathan	2	30		50-4-12		
3	Dave	3	40		20-3-1		
4	James	4	100	4	25-15-2		

Figure 1. Locker Data

Write a Java program which begins by asking, "Enter a locker number (e.g. 12 or -1 ALL) > ". Begin by creating the data arrays shown in Figure 1. If a negative locker number is entered, display all of the locker's and their owners & combinations. If a non-existent locker number is entered display an error message. If a valid locker number is entered display the owner's name, number and combination.

Sample Session(s)

			RUN #1			
- 🕬 BlueJ: Te	erminal Window - E1					
Options			In this example run, the user inputs a negative			
Enter a	locker number	(e.g. 12 or -1 All) > -1	number. A negative number is a sentinel for			
Names	Locker	Combination	printing out all of the locker data in the order that			
Norman	123	12-49-2	it appears in the arrays			
Ruth	124	40-3-12	it appears in the arrays.			
Nathan	30	50-4-12				
Dave	40	20-3-1				
James	100	25-15-2				
_						
🐔 Bluel: Terminal Window - E1			RUN #2			
-						
Options						
			In this example run, the user a non-valid locker			
Enter a	locker number	(e.g. 12 or -1 All) > 555	number If this hannens the program outputs an			
Errory	lookor numbor r	at found				
Error:	Tocket unliber t	iot round.	error message, "Error: locker number not found.			
🗇 BlueJ: Terminal Window - E1			RUN #3			
Options						
Enter a	locker number (a = 12 or -1 All > 30				
circer a	Tookei Humbel (c.g. 12 01 1 AII / 50	In this example run, the user inputs a valid locker			
Mamaa	Lashan	Ormhinstian	number If this hannens only the student whose			
Names	Locker	Compliation				
Nathan	30	50-4-12	locker this belongs to, is displayed.			