Name: Ronaldy

1. Valid or Invalid syntax? Explain why

int books = "6";	Valid
int notebooks = 3;	
books += notebooks;	
System.out.print("Cat count = , numCats);	Invalid. They forgot the quotation marks after the comma after the equal sign and the + after the quotation marks it's suppose to be System.out.print("Cat count = ," + numCats);
if ((a => 5) && (a =< 9))	
a = a * 7; else	Invalid the equal sign has to be behind the > sign like this >= or <=
a = a * 3;	
String s1 = "Hi"; String s2 = "bye"; boolean b = s1 > s2;	Invalid as you can't compare which string is bigger like this. It would be more wise to use something like make an two ints and compare the lengths that way.
int very short = 1;	Invalid. use _ spaces won't work with variables well
int 3rdPlace = 6;	Valid
String s1 = "Hello";	Its Valid, but s2 has no
String s2 = "Bye";	purpose. if you want the result of HelloBye
s1 = s1.concat(s1);	you should concat s2

Name: _____

- 2. During text messaging, people use abbreviations to save on typing. Expand the program below to recognize and translate the following abbreviations:
- AAS Alive And Smiling
- FYI For Your Information
- BAU Business As Usual

If the abbreviation is not included in the list, your program should output "Unknown Abbreviation" for the translation. The input should be case insensitive, and the output should be as shown above.

```
import java.util.Scanner;
public class SMSAbbreviations3 {
    public static void main(String[] args) {
        Scanner scnr = new Scanner(System.in);
        System.out.println("Enter The SMS Abbreviation: ");
        String abbreviation = scnr.nextLine();
        String translation = "";
        /* Your solution goes here */
        System.out.println(abbreviation + " means " + translation);
        return;
    }
}
```

3. Write a program that converts kilometers to miles, where 1 km= 0.62 miles. The miles must be provided by the user.

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4. Write a program that asks user for their name and the name of their favorite pet, and outputs their name and the amount of characters in their pet's name. For example, if Linda's pet is called Lacy, then output should be: "Linda, Lacy has 4 characters".

Note: String method for the size of the string is length().

6. Write a Java method to find the smallest number among two numbers

str = str.concat(" Now!!!");