day84 Arduino coding 3
Due Friday 4/19/24

1. Open a new program. Name it "day84"

Put your name in a comment at the top. I will only be giving you credit if your name is in the file name or in a comment at the top or both.

In the setup() function, put the following:

```
Serial.begin(9600);
```

In the loop() function put this:

```
Serial.println("day84 <your name>"); //where <your name> is your actual name
delay(3000);
```

Upload your program. It should print the line above once every 3 seconds.

Above the delay call, but inside the loop() function, write a for loop that goes from 0 to 20, going up by 1 each time. Use two print lines, one to print the number and one to print a space after it so that all the numbers show on one line like this:

```
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
```

After the for loop, print a blank line.

Upload your program, make sure it is working.

2. Above the delay call, but below your other code, print this using a single line of code:

```
                I
        hope
   you
have
   a
        great
                weekend!
```

That's three tabs before I and weekend, two tabs before hope and great, one tab before you and a, and no tabs before have.

Upload your program, make sure it is working before continuing.

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3. Write a for loop that goes from 70 to 0 backwards by 7s. Inside the loop use an if statement to print a note if your loop variable is divisible by 3. Use a second if statement to print a note if i is less than 10. Make the second statement in all caps. You should get the following notes:

```
63 is divisible by 3
42 is divisible by 3
21 is divisible by 3
7 IS LESS THAN 10!
0 is divisible by 3
0 IS LESS THAN 10!
```

4. Turn the light on for 1 second, then turn it off. Can you remember what you have to put into the setup() function if you want to turn a light on? Look it up in a previous program.

5. Are you still adding your new parts ABOVE the delay(3000) line? If not, fix that. Also, make your code pretty by typing Control-T regularly.

Call me over to check you off when you are done. Also turn this in on the Google Classroom when you are done.