

Quiz 1 – Jacob Dunn

1. Write a program that makes a LED blink continually after the press of a button. Make sure that it blinks slow enough to observe. If you press the button again it should stop blinking.

```
1  bool on = false;
2
3  void setup() {
4      // put your setup code here, to run once:
5      pinMode(9, OUTPUT);
6  }
7
8  void loop() {
9      // put your main code here, to run repeatedly:
10     int btnPress = digitalRead(3);
11     delay(500);
12
13     if(btnPress){
14         if(on) on = false;
15         else on = true;
16     }
17
18     if(on){
19         digitalWrite(9, HIGH);
20         delay(500);
21         digitalWrite(9, LOW);
22     }
23 }
```

2. Name 3 digital functions in Arduino.

digitalRead()
digitalWrite()
pinMode()

3. What are the analog functions in Arduino and what are their respective ranges?

analogRead() – 10 bit (0-1023)
analogWrite() – 8 bit (0-255)