1) The serial interface on the Arduino is a powerful tool for debugging. It allows you to view the current value of program variables as your program runs. This can be used to check if a variable is changing as you think it should, or to determine if a program reached a certain point in execution or not. The example program below uses this future to debug by printing the value of the variable “Variable” to the serial monitor. Describe what lines 2, 6, and 10-19 do (line 2 has been done for you as an example). Liberal use of google and the Arduino website will help.

```c
1
2    int Variable = 0; //initialize 'Variable' to zero
3
4    // the setup routine runs once when you press reset:
5    void setup() {
6        Serial.begin(9600);
7    }
8
9    // the loop routine runs over and over again forever:
10   void loop() {
11        Serial.println(Variable,HEX);
12        if(Variable < 5){
13            Variable = Variable + 2;
14        }else{
15            Serial.println("RESET");
16            Variable = 0;
17        }
18        delay(1000);
19    }
20```

2) What will the first five lines printed to the serial monitor be?
   (1) ________________
   (2) ________________
   (3) ________________
   (4) ________________
   (5) ________________