## Lab 3

Part 1

unsigned long Timer; //int time to keep track of the time

int numb = 0; // creating an int name "incomingByte"

char Letter = 'A'; //this is the letter we will use for our conditional statements

//Setups the variables and functions used

void setup()

{

Serial.begin(9600); // Sets and begins the baud rate to 9600

Timer = millis();

}//end setup

//Loops the main bulk of the code

void loop()

{

if ( millis() - Timer >= 500 )

{

if (Serial.available() > 0)

{

if (Serial.read() == 'R')

{

Letter = 'A';

numb = 0;

}

}//end if

Timer += 500;

Serial.print(Letter); //Pushing the char Letter into Serial.write

Serial.println(numb); //Printing the Incoming Byte via Serial.print

//checks to see of the ASCII char Letter is Less than ‘A’

if ( Letter < 'Z' )

{

Letter ++; //if true, iterates char Letter

}

else

{

Letter = 'A';//else sets letter to A

}

//checks if incomingByte is less than 9

if ( numb < 9 )

{

numb ++; //if true, iterates incomingByte

}

else

{

numb = 0;

}

}//end if

}//end loop

## Lab 3

Part 2

unsigned long Timer; //int time to keep track of the time

char Letter = 'Z'; //this is the letter we will use for our conditional statements

//Setups the variables and functions used

void setup()

{

Serial.begin(9600); // Sets and begins the baud rate to 9600

Timer = millis();

}//end setup

//Loops the main bulk of the code

void loop()

{

if ( millis() - Timer >= 500 )

{

Serial.print(Letter);

Timer += 500;

}//end if

}//end loop