



Machine Learning Internship Session 6

Drowsiness Detecion - Coding Sheet

Embedded C Language is a case sensitive Language

```
#define python Serial // Assign python variable as Serial
#define buz 7 //buz pin number
String IncomingData = ""; //variable for receiving data

void setup() {
    // put your setup code here, to run once:
    python.begin(115200); //serial communication between python and
microcontroller
    python.println("Ready"); //transmit data to python and check it's
connected perfectly

    pinMode(buz, OUTPUT); //declare buzzer as output
    digitalWrite(buz, LOW); // initially turn off buzzer

}
void loop() {
    // put your main code here, to run repeatedly:
    while (python.available()) //check if there is any incoming data is
available or not if it's available
    {
        IncomingData = python.readString(); //read the incoming data

        delayMicroseconds(5);
    }
    if (IncomingData.length() > 0) { //if incoming data byte is greater than
zero

        if (IncomingData == "1") { //if received is equal to one show the
display and alert via buzzer

            digitalWrite(buz, HIGH);
        }

        IncomingData = "";
    }
}
```

End of Document