status=" ";

video=" ";

objects=[];

var SpeechRecognition=window.webkitSpeechRecognition;

var speech=new SpeechRecognition();

function preload(){

    video=createCapture(VIDEO);

    video.size(380, 380);

    video.hide();

}

function setup(){

    canvas=createCanvas(480,380);

    canvas.center();

}

function start(){

    object\_detector=ml5.objectDetector('cocossd', modelLoaded);

    document.getElementById("status").innerHTML="Status:Detecting Objects";

    object=document.getElementById("object\_name").value;

}

function modelLoaded(){

    console.log("model loaded");

    status=true;

}

function draw(){

    image(video, 0, 0, 480, 380);

    if (status=="true"){

        object\_detector.detect(video,gotResult);

        for (i=0;i<objects.length;i++){

            document.getElementById("number\_of\_objects").innerHTML="Number of objects detected are : "+objects.length;

            percent=floor(objects[i].confidence\*100);

            text(objects[i].label+" "+percent+"%",objects[i].x+15,objects[i].y+15);

            noFill();

            stroke("blue")

            rect(objects[i].x,objects[i].y,objects[i].width,objects[i].height);

            if(objects[i].label==object){

                video\_webcamLiveView.stop()

                object\_detector.detect(gotResult);

                document.getElementById("status").innerHTML=object+" found";

                speak\_data="Object Found";

                var synth=window.speechSynthesis;

                var utterthis=new SpeechSynthesisUtterance(speak\_data);

                synth.speak(utterthis);

            }

            if(objects[i].label!=object){

                document.getElementById("status").innerHTML=object+" not found";

            }

        }

    }

}

function gotResult(error,results){

    if (error){

        console.log(error);

    }

    console.log(results);

    objects=results;

}