

Huskylens AI vision sensor

# Introduction

In this lecture we will get acquainted with Huskylens AI Vision Sensor

# Necessary:

* Huskylens AI vision sensor

# Process!

1. **Overview**

A close-up of a circuit board

Description automatically generated

A small black screen with colorful wires

Description automatically generated

1. **Open the folder** **where** you **saved the code** for the **previous lesson**. **Reduce** the **folder** and mocro:bit programming **platform** so you **can see both** at the same time. With the mouse, **take** the **file** from the folder and **drag** it into the **programming window**, the previous code will open there.

A screenshot of a computer

Description automatically generated

1. Now your code will look like this:

A screenshot of a computer

Description automatically generated

1. To **add** a **servo action,** we create a **function servoBlow.**
2. From **loops** insert **repeat 3 times** in **function**. It will repeat the action three times, you can choose a different number of repetitions
3. From **Pins** take **servo write pin P0 to 0**. **Look**! at the chip at what pin your servo motor is connected to (P15 or P16), **enter** it into the code instead of **P0**. **Enter** the **starting position** of the servo **in degrees**, it will depend on the existing state of your servo and the condition of the connected part. Choose an **angle** so that the **part is raised**.
4. Insert **pause** in (ms) , You can experiment with time and choose the most suitable
5. Again from **Pins** take **servo write pin P0 to 0**. **Enter** the **same** **pin** into the code instead of **P0**. **Enter** the **end position** of the servo **in degrees**, it will depend on the existing state of your servo and the condition of the connected part. Choose an **angle** so that the **part is down**.
6. Insert **pause** in (ms) , You can experiment with time and choose the most suitable
7. **In** your **existing code** after first stop insert **pause (ms) 500** and from **function** insert **call servoBlow**.

A screenshot of a computer program

Description automatically generated

!!! Warning !!! The servo motor has limited power abilities, so choose an area with soft toy obstacles or adjust the angles of position of the motor so that it does not have an excessive load when trying to perform the action. Overload, the motor may burn out

1. **Download** in micro:bit controller

Python code:

**A screenshot of a computer program

Description automatically generated**

# Challange:

Create a code in which to add the sound of beats during the time the servo makes beats.