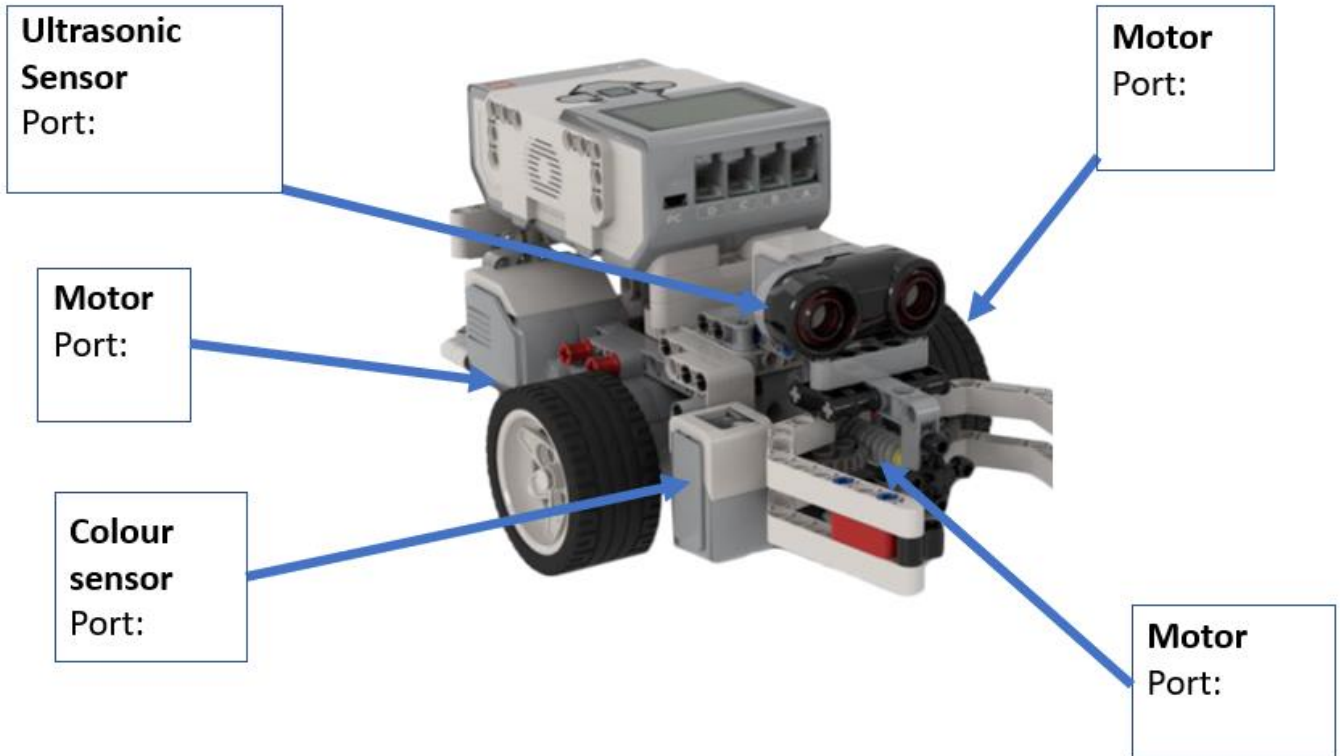


PLAN YOUR PORTS



Basic drive square - loop

```

when program starts
  set movement motors to D and A
  set movement speed to 20 %
  repeat 4
    move straight: 0 for 450 degrees
    move right: 100 for 165 degrees
  stop and exit program
  
```

Line follow - reflected light

```

when program starts
  set movement motors to D and A
  forever
    if 3 is reflected light intensity > 80 %? then
      start moving at 50 0 % speed
    else
      start moving at 0 50 % speed
  
```

ULTRASONIC SENSOR

Traffic Jam

```

when program starts
  set movement motors to D and A
  forever
    if 4 distance in cm > 20 then
      start moving straight: 0 at 50 % speed
    else
      start moving straight: 0 at -15 % speed
  
```

Obstacle Avoidance

```

when program starts
  set movement motors to D and A
  forever
    start moving straight: 0 at 50 % speed
    wait until 1 is distance < 30 cm ?
    move right: 100 for 0.5 seconds at 50 % speed
  
```

SUMO – Basic

```

when program starts
  set movement motors to D and A
  forever
    start moving right: 100 at 40 % speed
    wait until 1 is distance < 80 cm ?
    start moving straight: 0 at 50 % speed
    wait until 4 is reflected light intensity > 30 %?
    move straight: 0 for 1 seconds at -100 % speed
  
```

SUMO – nested loop

```

when program starts
  set movement motors to D and A
  wait 3 seconds
  forever
    if 4 is reflected light intensity > 30 %? then
      display Eyes / Awake
      move straight: 0 for 1 seconds at -100 % speed
    else
      if 1 is distance < 80 cm ? then
        start moving straight: 0 at 50 % speed
        display Eyes / Angry
      else
        start moving right: 100 at 40 % speed
        display Eyes / Bottom right
  
```