Open DroneBlocks application, **log in with school email address** and create *ONE CONTINUOUS* program to fly through the path according to these instructions:

First task:

- The drone starts on point 1 (Start/Finish).
- Program the drone to fly to the point 2 in speed 30 cm/s and in height of 1,5 meter

(2 points)

HELPFUL NOTES:

➢ when drone takes off it flies to height 85 cm
➢ distance from point 1 to point 2 is one meter

Second task:

- After one meter drone encounters an obstacle which it must fly around. If you use repeat cycle to fly around an obstacle, you can double your points.

(2 points without repeat cycle, 4 points with repeat cycle)

Third task:

- Program the drone to fly to point 3: coordinates are (1,5; 2; − 1)   *(1 point)*
- Hangs for 5 seconds and takes a photo of the QR code 1.   *(1 point)*

HELPFUL NOTES:

➢ the best height for making pictures of QR codes is 40 cm
➢ coordinates are axes x; y; and z:
▪ axis x – from left to right
▪ axis y – from back to front
▪ axis z – up and down

For example:

▪ coordinates (2;2;2) means 2 metres right, 2 metres forward and 2 metres up
▪ coordinates (-2; -2; -2) means 2 metres left, 2 metres backward and 2 metres down)

Fourth task:

- Fly to the left 3 m and take a photo of the QR code 2 at the point 4.   *(1 point)*
- Fly back to point 2.   *(1 point)*

Fifth task:

- Now fly to point 6 under the beam at the point 5.   *(2 points)*

HELPFUL NOTES:

➢ distance from point 2 to point 6 is 3 meters
➢ the beam on point 5 is in the height 50 cm

Sixth task:

- Turn left and fly 2 meters to point 8 above the bench at point 7.   *(1 point)*

HELPFUL NOTES:

- ➢ the beam on point 7 is in the height 125 cm

Seventh task:

- Return to the starting platform by doing one flip along the way. Land the drone to Start/Finish area.

(Flip - 1 point, 2 points to S/F area)

ATTENTION:

- save your mission: surname1_surname2_int_round
- go to My missions and send ***Desktop share link*** to whatsapp/instagram of your teacher or to:
  - ➢ Whatsapp: +420777002436
  - ➢ Instagram: ja_kuza13, Čestmír Glogar
- make a printscreen(s) of your mission and send it too plus pictures of QR codes.