Task 1 (January)

Painting with Light

January is a month of short days and long nights. For many people, winter doesn't just bring cold weather, but also heavy thoughts and difficult moments. Initiatives like the Austrian Lichts in Dunkel or Svetielko nádeje in Slovakia show how solidarity and small acts of care can make a real difference.

Now it's your turn: **Your challenge is to use light, art, and technology to create a visual message that brings hope, warmth, and encouragement to people during the dark winter days.**

Find an appropriate light source (flashlight, battery, mobile phone, or simply the LEDs on the mBot robot) and connect it to your robot (3D printed holder is a plus). Program your robot to make some interesting movements and make a photo of it. Make the photo in the dark room using the very long exposition time. Video should be filmed in normal conditions, showing the robot behaviour, but the resulting art should be shown in the photos. Upload your photos, video, code and short description of your project.

Tip: You may find many tutorials on long exposition photography on the internet, especially for astronomy photos.

An inspiration for your creations can be this Roomba vacuum cleaner.
Photo: "Roomba Art" by Krishna Santhanam, CC BY-ND 2.0