Numeracy and Literacy Through Coding and Robotics
Project code: 2018-1-MT01-KA229-038504

Due to COVID-19 pandemic the mobility that was to be held by Osnovna šola Pivka in Slovenia was organised virtually and took place on 5th, 11th and 23rd February 2021. Before that we had a joint video conference with all the participating teachers in mobility. Using the computer thinking skills we acquired at the Computational thinking seminar in Milan, August 2019, we presented our learning experiences of teaching robotics and coding in the classroom.

Prior to the mobility, the teachers prepared videos of the lessons with the students, and performed or presented the activities to the foreign teachers and students live in the classroom in five workshops:

1. **Coding on paper:**
   In first grade, they focused on performing exercises in a physical education class using coding cards. In second grade, students learned to dance by coding dance steps.
2. **Robots Beebot:**
   In the third grade, students explored ways to learn how to program Beebot robots in Slovene and mathematics in order to get to know the work and life of France Prešeren and learn multiplication.
3. **Lego Education WeDo 2.0:**
   In fifth grade, students created their first experiences of how to build objects using coding.
4. **ScratchJ:**
   Pupils aged 10 programmed their own interactive stories about the presentation of Slovenia. In doing so, they learned to solve problems, design projects and express themselves creatively in digital thinking.
5. **Learning Games:**
   Kahoot. In the fifth grade, they prepared a video about Slovenia. They explored a useful tool for playing and learning in the Kahoot virtual environment, which provides a link between play and school learning. Pupils from all schools involved in the project solved a quiz about Slovenia.

Teachers of partner schools carried out the activities of Slovenian colleagues in parallel with the students in the class. At the end of each working day, we conducted a joint evaluation of the activities presented in class and discussed whether we were successful, whether the goals were achieved, and whether these goals were focused on the positive effects of students. At the end of the meeting, we prepared new pedagogical strategies that can be used by all schools in the classrooms with our students and thus upgrade their way of teaching practice.

On the first day of the meeting, our students prepared a video presentation for the partner schools, the principal and administrator of the project from the Erasmus National Agency from Slovenia also gave a welcome speech, and the teachers presented the school virtually. Ten teachers participated in the virtual mobility at the Pivka Primary School.

All learning outcomes are published in the eTwinning project and will be presented in an e-handbook to be shared with other schools and the whole educational community.