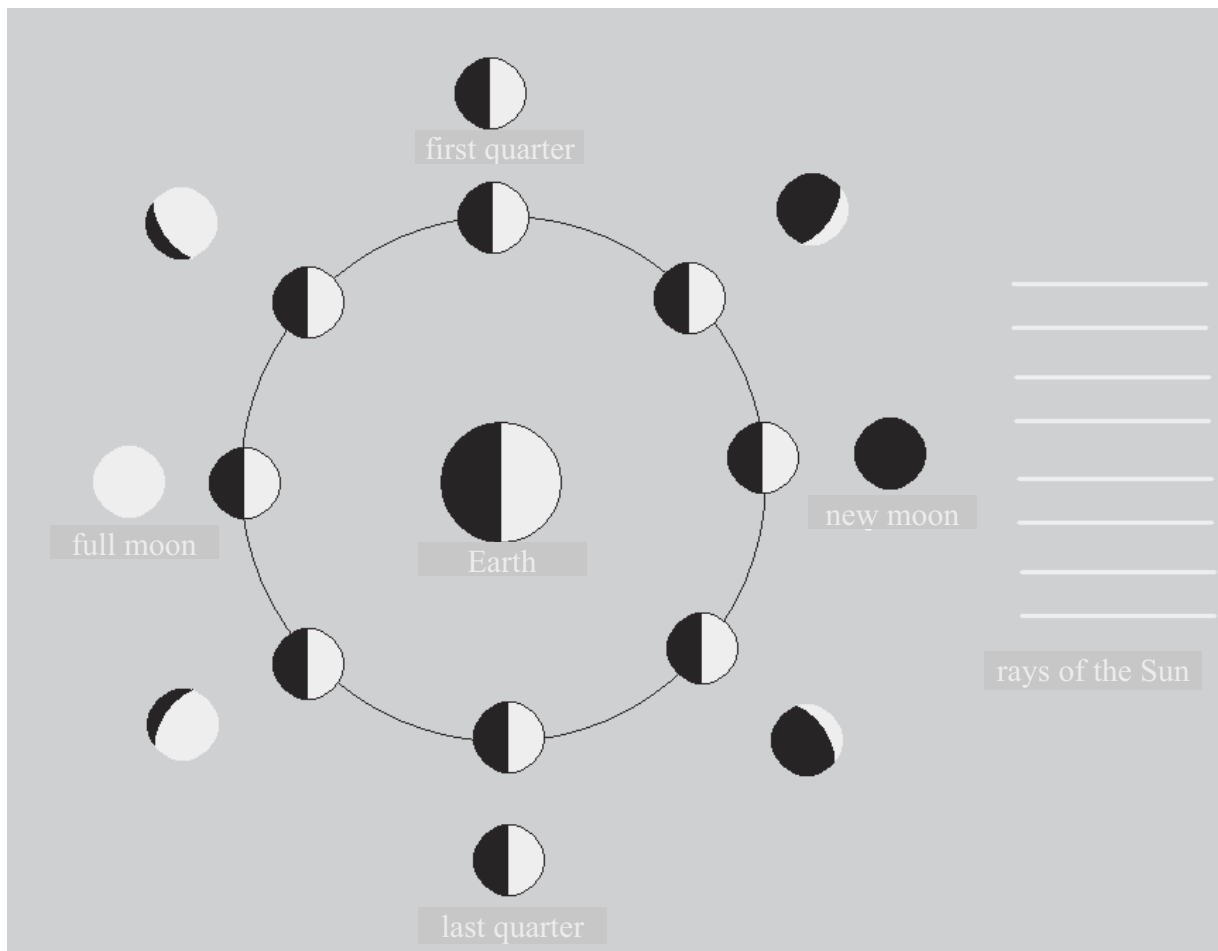


2A Moon phases

Create a drawing to introduce the phases of the Moon based on the example and the description. Save your work as *holdfazisok* in the format of the program. The moon phases are the shapes of the illuminated part of the Moon that can be observed from the Earth while the Moon is revolving around it. In the example, the shapes drawn outside the orbit of the moon show which moon phase is observable from the Earth at the given part of the orbit.

If required, you can use the following files to solve the exercises (their use is not compulsory): *sarga.gif*, *sarlo.gif*, *felkor.gif*. They can be found in directory 2A_Holdfazisok.



1. The background of the drawing is dark blue. (It is advised to set this after drawing the other elements.) The shaded part is black, the illuminated part and the inscriptions are yellow.
2. The position of the phase drawings should not be constructed, but try to position the elements according to the example. Place the half black, half yellow circle representing the Earth approximately at the centre of the black circle representing the orbit of the Moon; the size of the circle should be slightly greater than the circles representing the Moon.
3. On the circle representing the orbit, place the 8 identical, half black, half yellow circles representing the illuminated Moon; the shapes should be spaced evenly.

4. You should place the moon phases visible from the Earth in accordance with the example, outside the circle, in the direction of the radius. The curved lines used in the phase drawings should be circular arcs. In order to create the drawing faster, utilize potential symmetries.
5. Create the 8 yellow lines on the right representing the rays of the Sun; they should be parallel and placed at approximately equal distances from each other.
6. Place the 6 labels of the drawing; they should be yellow.

15 marks
