Description
Moon is a small program to calculate and display the moon phases. It uses a simple drawing routine to represent an approximation of the moon’s phase and add some speckles to simulate starts.

How to install the program
This is the procedure I follow using the HP Connectivity Kit:

1. Connect your calculator to your PC using the USB cable provided with it. If this is the 1st time, wait until the drivers are installed and restart your PC.
2. Install and open the HP Connectivity Kit.
3. Check for the working folder under Edit → Preferences:

   ![Preferences Window](image)

   Close the HP Connectivity Kit.

4. Open the same folder using Windows Explorer (I use Total Commander), add \Calculators\MyCalc\ to the path (usually C:\Users\your name\Documents\HP Connectivity\), and copy the program there (moon.hpprgm)

   ![File List](image)

5. Re-open the HP Connectivity Kit.
6. Under the Calculators tab you should see your calculator, and under the Content → Programs you should see Moon as in the following image:
7. Right click Moon and select **Send to class: (All)**
8. You will see a progress bar at the bottom part of the screen.

If you change to the Calculator→**Programs** tab, the Moon program should already be there ready for your use (right click the calculator’s name and use **Refresh** if you do not see it or restart the HP Connectivity Kit).

### How to use the program
1. Before you begin be sure that the angle measure is set to radians and not degrees:
   a) Press **Shift** to open the Home Settings and, if necessary, change the Angle measure to **Radians**.
   ![Home Settings](image)
   b) Press **Shift** again to exit the Home Settings menu.
2. Press **Enter** and tap **User**.
3. Select **Moon** from the list.

4. Tap **Enter** and the program executes, displaying a message box and then asking for the date. There is no provision for verifying the validity of this data. The calculator’s date is used as the default.

5. If you accept the values, tap **Enter** once more. The moon phase is displayed along with its age and illumination value.

6. Tap **Enter** to return to the home screen.