How to build Kulibin's fountain

take an empty plastic bottle

cut a bottle into two parts
about 7 cm from the bottom

use bottom part of the bottle to mark a circle on a porous material (wood)

cut a circle

make a hole in the centre

so that cocktail straw can be inserted

use plastic electric tape to fix upper part of the straw

insert straw into porous material

insert both into bottom part of the bottle and glue all together

let glue to dry for 2-3 days

use dual side adhesive mounting tape to temporary fix porous membrane if necessary

use any rubber glue (water proof)

do four vertical incisions abut 2cm long on the upper part of bottle

put upper part of the bottle on the bottom so that they overlap about 1cm (so that two "petals" of the top bottle part between incisions go inside bottom part and two "petals" left outside)

glue both parts carefully together make sure that all cavities covered by glue

let glue dry for 2-3 days

Fill upper part with warm tap water and close lid tightly

Now relax and wait, wait and observe.

Depending on properties of porous material it could take from several days to several weeks until water starts coming up and dropping thru the straw

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