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# *Paste the* Algorithms and Pseudocode *question you've selected followed by your answer. (minimum 250 words)*

Include your assessment of the general knowledge and "common sense" needed to carry out the instructions successfully.

**Question: What is the pseudocode for a robot to make your favorite beverage in the morning?**

Answer: The following is the pseudocode/algorithm for a robot to make my favorite morning beverage – Milk Tea.

Step 1: Start

Step 2: Go to the kitchen.

Step 3: Turn the lights on.

Step 4: Open the drawer where the utensils are kept.

Step 5: Pick up a saucepan from that drawer and keep it on the stove top while the stove top is turned off.

Step 6: Open the cabinet where Sugar and Tea bags are kept.

Step 7: Pick the boxes with the label Sugar and Tea and keep it on the shelf.

Step 8: Open the fridge door.

Step 9: Pick the container with the label milk on it and keep it on the shelf.

Step 10: Pour 200 ml or 6.76 oz of milk in the saucepan from the container.

Step 11: Turn on the stove with the saucepan on top of it.

Step 12: After 45s pick up the box of tea bag, open it and put one tea bag in the pan containing milk.

Step 13: After 15s pick up the box of sugar, open it and put one teaspoon of sugar in the pan containing milk and tea bag.

Step 14: Let the solution containing milk, tea bag and sugar come to a boil (attain a temperature of 100 degree Celsius).

Step 15: After the tea has come to a boil, turn off the stove.

Step 16: Pick a teacup from the cabinet containing all Ceramic utensils and put it on the shelf.

Step 17: Pick a tea strainer from the top cabinet containing all strainers.

Step 18: Strain the tea and pour the tea in the cup.

Step 19: Discard/throw the strained tea bag in the garbage.

Step 20: Open the cabinet and put the boxes containing tea bag and sugar back in the cabinet.

Step 21: Open the fridge door and put the milk container back in the fridge.

Step 22: Put the saucepan and the strainer in the dishwashing sink.

Step 23: Turn the kitchen lights off.

Step 22: Pick up the teacup and bring it to me.

Step 23: End

In order to carry out the above written instructions successfully a **very basic** general knowledge and common sense is required. By very basic general knowledge and common sense, I mean the person/robot executing the commands/steps must know the day-to-day vocabulary used and also know how to execute the commands that are given to them.

# *Paste the* ICT Past, Present, and Future *question you've selected followed by your answer. (minimum 250 words)*

**Question: How does cloud computing change our need for personal computing hardware?**

Answer: Cloud computing has had significantly changed and has greatly modified the way we interact with the personal computing hardware. With the ever-enhancing technology, using cloud computing hardware has become easier and more convenient over the years. Some ways in which cloud computing has changed the way we interact with the hardware are:

1. Remote location convenience: With the rise in cloud computing one thing which has risen a lot is the growth in remote work. Because working using cloud computing does not need to be done at a specific location, the user can access the files from anywhere in the world, the only thing required is an active internet connection.
2. Hardware upgradability: Whenever using the cloud computing technology, because the hardware is not attached physically to the computer, upgradability is very easy. Whenever the present storage fills up, the user can easily upgrade the storage option and add more storage to the account. The same can be applied to the computing power of remote CPU and GPU systems, they can be upgraded with time.
3. Data backup and recovery: Cloud computing technology has built-in support for data backup and recovery. While using cloud technology every new version of a file is securely backed up and data recovery is very easy while using cloud technology even if the file is deleted.
4. Easy collaboration: While using cloud computing because the file is not saved on any single device, collaboration between different users and devices becomes very effortless. Different collaborators can work on the same file at the same time or at different times and make the project/file better.

Overall, cloud computing has shifted the ways in which we interact with the personal computers and is making significant changes in day-to-day computing needs. Because of cloud computing mobility, upgradability, recovery and collaboration have been improved a lot and it has made computing easier.