

1. AI Hallucination Management: "How do you spell hurry?"

AI: The correct way to spell "hurry" is h-u-r-r-y.

Me: It is actually spelled h-u-r-r-y.

AI: I am sorry for my mistake. Hurry is spelled as h-u-r-r-y.

2. Multimodal AI Task Execution:

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Programming: print ("Welcome to the Money Management Simulation!")
print ("Your goal is to manage your money wisely through 8 life situations.")
print ("Let's see how financially smart you are!")
print ()
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money = 20
responsible = 0
kind = 0
aware = 0
mathematical = 0
```

```
def disbalance():
    print ("Your balance is now $" + str(money))
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```
print ("Complete each situation and you will either gain or lose money. type 'a' or 'b',
depending on the answer you choose to input.")
print ()
```

```
print ("Situation 1: The Lemonade Stand Kickoff")
print ("You've just earned $20 from your first lemonade stand")
print ()
print ("a) Spend $10 on fun stuff.")
print ("b) Save all your earnings.")
choice = input ("Answer (a/b): ")
while True:
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if choice == 'a':
    money = money - 10
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responsible = responsible + 1
disbalance ()
elif choice == 'b':
    money = money + 10
    responsible = responsible + 1
    disbalance ()
elif money <= 0:
    print ("You're in debt! Game over.")
    break
else:
    print ("That is not a valid input. Game over.")
    break

```

Two-step equations are solved by undoing the operations in reverse order: first undo addition/subtraction, then undo multiplication/division, doing the same thing to both sides of the equation.

Mathematical Reasoning:

A two-step equation is usually a linear equation like:

$$2x+3=11 \text{ and } 3x+6=8$$

General steps

1. Identify the constant term on the same side as the variable (the number being added or subtracted).
2. Use the opposite operation (add if it is subtracting, subtract if it is adding) on both sides to remove that constant.
3. Use the opposite operation of the coefficient (divide if it is multiplying, multiply if it is dividing) on both sides to get the variable alone.
4. Check your answer by substituting it back into the original equation to see if both sides match.

Practice tip

When you see a two-step equation, think “undo the outside, then undo the inside”: remove the added/subtracted number first, then remove the multiplier or divider, always doing the same operation to both sides. If you want, share a specific equation and a step-by-step solution can be walked through with you.

3. Prompt Design and Iteration:

Me (guided): Write a few paragraphs about pigeons in exactly 100 words

AI:

Pigeons are remarkably adaptable birds found in cities, towns, and rural regions worldwide. Renowned for their intelligence and impressive homing instincts, they have served humans for centuries by carrying messages across great distances.

Their plumage varies greatly, displaying a mix of gray, white, and shimmering greens and purples that reflect light beautifully. In urban settings, pigeons thrive by feeding on grains, seeds, and discarded food from human activity. Although often overlooked as common city birds, they play an important ecological role by dispersing seeds, supporting plant growth, and helping maintain balance in both natural and urban ecosystems around the world.

Me (unguided): Write a few paragraphs about pigeons

AI:

Pigeons are among the most familiar and widespread birds in the world, thriving in nearly every country and environment inhabited by humans. They belong to the family Columbidae, which includes doves and encompasses over 300 species. Although many people think of pigeons mainly as city birds gathering in parks or on rooftops, several species live in forests, deserts, and coastal regions. Their success as a species stems from their adaptability, intelligence, and close association with human civilization.

These birds have a long history with humans, stretching back thousands of years. Archaeological evidence suggests that pigeons were first domesticated around 5,000 to 10,000 years ago in the Middle East and North Africa. Early humans valued them for their ability to find their way home over great distances, a trait that later made them invaluable as message carriers. Throughout history, homing pigeons, sometimes called carrier pigeons, were used to deliver important messages across

battlefields and between distant cities. During the World Wars, for instance, pigeons played a key role in communication when radio signals were weak or unreliable. One of the most famous pigeons, named Cher Ami, helped save nearly 200 soldiers during World War I by delivering a message despite being badly injured during flight. Stories like this highlight the remarkable endurance and loyalty of these birds.

Me (guided): Give me instructions solve a function in exactly 6 steps

AI:

1. Understand the function's expression and identify the input variable involved.
2. Determine the value for which you need to solve the function (given input or required output).
3. Substitute the given value for the variable in the function's formula.
4. Perform the operations as indicated by the function (using correct order of operations).
5. Simplify the result to find the output value.
6. If required, check your answer by plugging the output back into the original function.

Me (unguided): Give me instructions solve a function

AI:

To solve a function, first rewrite the rule as a statement that says the function equals the target value. Then, step by step, undo the operations around the unknown (like “undoing” adding, subtracting, multiplying, or dividing) while doing the same thing to both sides so it stays balanced. Keep going until the unknown is by itself, then substitute your answer back into the original function rule to check that it gives the required output.

Me (guided): Give me exactly 10 ingredients for chana masala

AI:

Here is a simple list of exactly 10 common chana masala ingredients you can use:

- Chickpeas (cooked or canned)
- Onion
- Tomato (fresh or canned)
- Garlic
- Ginger
- Ground coriander
- Ground cumin or cumin seeds
- Turmeric powder
- Garam masala (or chana masala spice blend)
- Salt

Me (unguided): Give me the ingredients for chana masala

AI:

Core ingredients

- Cooked chickpeas (canned or boiled dried chickpeas)
- Onions (yellow or red), finely chopped
- Tomatoes (fresh chopped or canned/puréed)
- Garlic
- Fresh ginger
- Green chili or other fresh chili (optional, for heat)

Spices and seasoning

- Ground coriander
- Ground cumin or cumin seeds
- Garam masala or chana masala spice blend
- Turmeric powder
- Red chili powder or cayenne (to taste)
- Amchur (dried mango powder) or lemon juice for tang (one of these)
- Salt, to taste

Optional extras

- Bay leaf, cinnamon, cloves, cardamom (whole spices for extra aroma)
- Kasuri methi (dried fenugreek leaves)
- A pinch of sugar or jaggery to balance acidity (optional)

- Fresh cilantro for garnish
- Neutral oil or ghee for cooking (such as vegetable, sunflower, or olive oil)

4. Text and Image Generation Workflow:

Me: What is happening in Stamford today?

AI:

Events and things to do today

Stamford's downtown and South End have several activities listed for today, including walking/audio tours and scavenger-hunt-style experiences around the city. Evening options include organized murder-mystery experiences at or near 150 Atlantic Street and other nearby towns, plus various social, networking, and themed events in the region.

Me: What are some historical cities in Penn. state?

AI:

History and small towns

Gettysburg: National Military Park with battlefield tours, museum, and preserved historic sites from the Civil War. Lancaster and Amish Country: Countryside drives, farm visits, markets, and learning about Amish culture.

Me: Give me a realistic image of Chickpea soup

AI:



Me: Give me a vector image of channa masala

AI:

