**Program:**

# Knowledge base

facts = {

"Ram likes mango": True,

"Seema is a girl": True,

"Bill likes Cindy": True,

"Rose is red": True,

"John owns gold": True

}

# Function to answer simple questions

def answer(question):

q = question.lower().replace("?", "").strip()

for fact in facts:

if q in fact.lower():

return "Yes, " + fact + "."

return "I don't know about that."

# Main program

print("AI Fact System")

print("Ask a question like 'Does Ram like mango?' or 'Is Rose red?'.")

print("Type 'exit' to stop.\n")

while True:

user\_input = input("You: ")

if user\_input.lower() == "exit":

print("AI: Goodbye!")

break

else:

print("AI:", answer(user\_input))

**output:**

**AI Fact System**

**Ask a question like 'Does Ram like mango?' or 'Is Rose red?'.**

**Type 'exit' to stop.**

**You: ram likes mango**

**AI: Yes, Ram likes mango.**

**You: ram is a good bye**

**AI: I don't know about that.**

**You: rose is red**

**AI: Yes, Rose is red.**