Date:17.10.25

TASK:10

Implement simple facts using python

Implement simple fact for following:

CO5 S3

- a. Ram likes mango.
- b. Seema is a girl.
- c. Bill likes Cindy.
- d. Rose is red.
- e. John owns gold.

Tool-Python

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AIM:

To implement simple facts and verify using python

ALGORITHM:

Step:1 Define a list of facts containing the statements to be verified.

Step:2 Create a function named verify_fact that takes a fact as input and returns a boolean value indicating whether the fact is true or false.

Step:3 In the verify_fact function:

- a. Remove the trailing period from the fact using the rstrip function.
- b. Check the fact against the known conditions to determine its truth value. You can use conditional statements (if, elif, else) for this.
 - If the fact matches a known condition, return True to indicate that the fact is true.
 - If the fact does not match any known condition, return False to indicate that the fact is false.

Step:4 Iterate over each fact in the list of facts:

- a. Call the verify_fact function for each fact.
- b. Print the fact and the corresponding "Yes" or "No" based on its truth value.

PROGRAM:

```
# Define a list of facts
facts = [
  "john_is_cold.", # john is cold
  "raining.",
             # it is raining
  "john_Forgot_His_Raincoat.", # john forgot his raincoat
  "fred_lost_his_car_keys.", # fred lost his car keys
  "peter_footballer." # peter plays football
# Function to check if a fact is true
def verify_fact(fact):
  # Remove the trailing period
  fact = fact.rstrip(".")
  # Perform some logic to verify the fact
  if fact == "john_Forgot_His_Raincoat":
    return True
  elif fact == "raining":
    return True
  elif fact == "foggy":
```

```
return True
elif fact == "Cloudy":
    return False # Assume it's not cloudy
else:
    return False

# Verify each fact
for fact in facts:
    if verify_fact(fact):
        print(f"{fact} - Yes")
    else:
        print(f"{fact} - No")
```

OUTPUT:

```
PS C:\Users\student\Documents\26270> c:; cd 'c:\Users\student\Documents\26270'; & 'c:\Program Files\Python313\python.exe' 'c:\Users\student\.vscode\extension s\ms-python.debugpy-2025.14.1-win32-x64\bundled\libs\debugpy\launcher' '59357' '--' 'C:\Users\student\Documents\26270\26270' john_is_cold. - No raining. - Yes john_Forgot_His_Raincoat. - Yes fred_lost_his_car_keys. - No peter_footballer. - No
```

RESULT:			
	ementation of simple	facts using python	was successfully