**Implement simple facts using python**

Aim: To implement simple facts and verify using python

Algorithm:

Step:1Define 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:**

john\_is\_cold. - No

raining. - Yes

john\_Forgot\_His\_Raincoat. - Yes

fred\_lost\_his\_car\_keys. - No

peter\_footballer. – No

**Result:**

Thus the implementation of simple facts using python was successfully executed and output was verified.