Task 10

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:

Result:

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