**SUSPICIOUS E-MAIL DETECTION**

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**AIM:**

Write a python program to detect the suspicious E-mail

**PROCEDURE:**

1.Start

2. Define the function is\_suspicious\_email(subject, sender, body):

a. Initialize a list of suspicious\_keywords

b. Initialize a list of suspicious\_domains

c. Check for suspicious\_keywords in the subject and body using regular expressions

i. Iterate over each suspicious\_keyword

ii. If a suspicious\_keyword is found in either the subject or body, return True

d. Extract the sender\_domain from the sender's email address using regular expressions

e. If the sender\_domain is in the list of suspicious\_domains, return True

f. Check if the word "attachment" appears in the body (converted to lowercase)

i. If it does, return True

g. Return False if none of the suspicious email rules match

3. Example usage:

a. Define the subject, sender, and body of the email

b. Call the is\_suspicious\_email function with the email details as arguments

c. Print "Suspicious email detected!" if the function returns True

d. Print "Legitimate email." if the function returns False

4. End

**CODE:**

import re

def is\_suspicious\_email(subject, sender, body):

# Rule 1: Check for suspicious keywords in the subject or body

suspicious\_keywords = ['urgent', 'verify', 'account', 'password']

for keyword in suspicious\_keywords:

if re.search(fr'\b{keyword}\b', subject, re.IGNORECASE) or re.search(fr'\b{keyword}\b', body, re.IGNORECASE):

return True

# Rule 2: Check if the sender's domain is suspicious

suspicious\_domains = ['example.com', 'suspiciousdomain.com']

sender\_domain = re.search('@(.+)', sender).group(1)

if sender\_domain in suspicious\_domains:

return True

# Rule 3: Check if the email has attachments

if 'attachment' in body.lower():

return True

# If none of the rules match, consider the email legitimate

return False

# Example usage

subject = 'URGENT: Verify Your Account'

sender = 'abipearl2652004@gmail.com'

body = 'Dear user, please verify your account by clicking the link below.'

if is\_suspicious\_email(subject, sender, body):

print('Suspicious email detected!')

else:

print('Legitimate email.')

**OUTPUT:**



**RESULT:**

Thus the python program to detect the suspicious E-mail is executed and verified successfully.