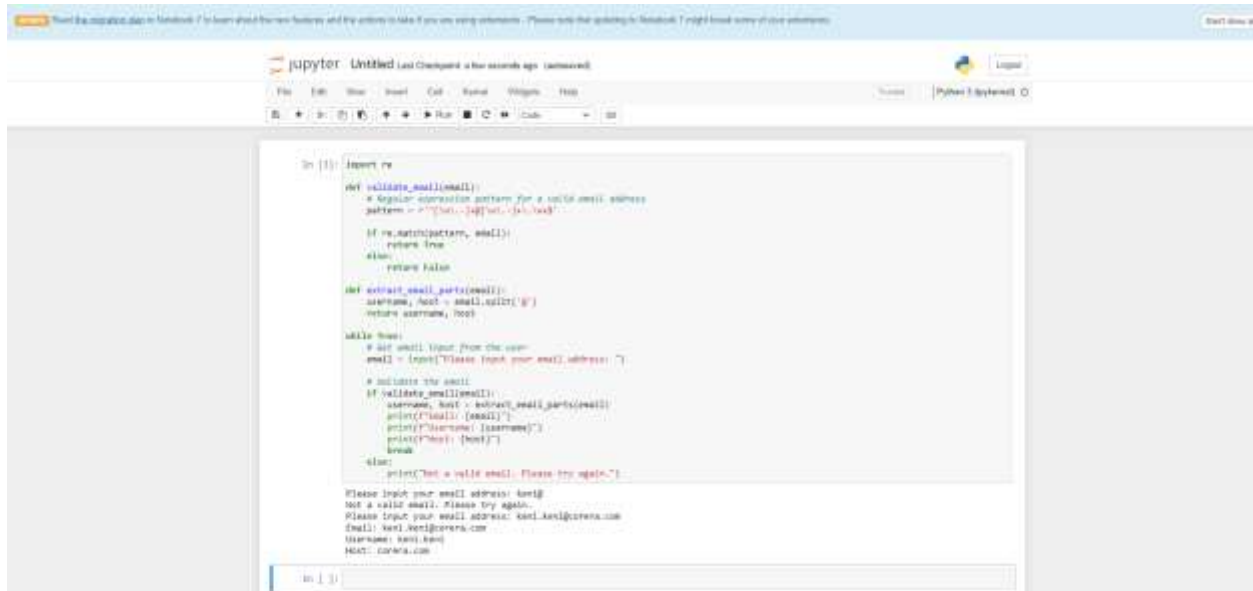


## Task 2.3P

Use regular expression to implement a function which accepts a passed string and check if it is a valid email address. A program accepts user's input and calls the email validation function. If the email is valid, print out the email, username and host. (Rule: word characters (a-zA-Z0-9\_ or "\w"), dot, and hyphen are considered as valid characters in an email address, besides of one & only one '@'.)



```

In [1]: import re

def validate_email(email):
    # Regular expression pattern for a valid email address
    pattern = r'^[a-zA-Z0-9_@-]+\.[a-zA-Z0-9_-]+$'
    if re.match(pattern, email):
        return True
    else:
        return False

def extract_email_parts(email):
    username, host = email.split('@')
    return username, host

while True:
    # Get email input from the user
    email = input("Please input your email address: ")
    # Validate the email
    if validate_email(email):
        username, host = extract_email_parts(email)
        print("Valid: {email}")
        print("Username: {username}")
        print("Host: {host}")
        break
    else:
        print("Not a valid email. Please try again.")

Please input your email address: kael@
Not a valid email. Please try again.
Please input your email address: kael.kael@cornia.com
Email: kael.kael@cornia.com
Username: kael.kael
Host: cornia.com
  
```