Code:

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import re

def validate_email(email):
    """Validates the email format."""
    pattern = r"^[\w\.-]+@[\w\.-]+\.\w{2,}$"
    return re.match(pattern, email.strip())

def slice_email(email):
    """Extracts username, domain, and TLD from email."""
    email = email.strip()
    try:
        username, domain = email.split("@")
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        if "." in domain:
            domain_name, tld = domain.rsplit(".", 1)
        else:
            domain_name, tld = domain, ""
        return {
            "Email": email,
            "Username": username,
            "Domain": domain_name,
            "TLD": tld
        }
    except VaiueError:
        return None
def process_emails(email_list):
    """Processes multiple emails."""
    results = []
    for email in email_list:
        if validate_email(email):
            data = slice_email(email)
            results.append(data)
        else:
            print(f"❌ Invalid email format: {email}")
    return results
def display_results(results):
    for entry in results:
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        print("\n✅ Email Sliced:")
        for key, value in entry.items():
            print(f"{key}: {value}")
def save_results(results, filename="email_slices.txt"):
    with open(filename, "w") as f:
        for entry in results:
            f.write(f"{entry['Email']} -> Username: {entry['Username']}, Domain:
{entry['Domain']}, TLD: {entry['TLD']}\n")
    print(f"\n📁 Results saved to {filename}")
# --- MAIN ---
if __name__ == "__main__":
    raw_input = input("Enter one or more email addresses (comma-separated):\n")
    email_list = raw_input.split(",")
    sliced = process_emails(email_list)
    display_results(sliced)
    save_option = input("\nDo you want to save the results to a file? (y/n): ").lower()
    if save_option == 'y':
        save_results(sliced)
```