**1. Write a Python program to extract all email addresses present in a**

**i) string.**

**ii) file.**

**Ans:**

**i)**

**import re  
string = 'simple@example.com ' \  
 'very.common@example.com ' \  
 'disposable.style.email.with+symbol@example.com ' \  
 'other.email-with-hyphen@example.com ' \  
 'fully-qualified-domain@example.com ' \  
 'user.name+tag+sorting@example.com ' \  
 'x@example.com ' \  
 'example-indeed@strange-example.com ' \  
 'admin@mailserver1 ' \  
 'yu@example.org ' \  
 'mailhost!username@example.org ' \  
 'user%example.com@example.org '  
lst = re.findall(r"[^.< ][\w]\*[\S]\*@[\w.-]\*", string)  
print(lst)**

**Output:**

**['simple@example.com', 'very.common@example.com', 'disposable.style.email.with+symbol@example.com', 'other.email-with-hyphen@example.com', 'fully-qualified-domain@example.com', 'user.name+tag+sorting@example.com', 'x@example.com', 'example-indeed@strange-example.com', 'admin@mailserver1', 'yu@example.org', 'mailhost!username@example.org', 'user%example.com@example.org']**

**ii)**

**import re  
txt\_file = open("abc.txt")  
txt = txt\_file.read()  
string = re.findall(r"[^.< ][\w]\*[\S]\*@[\w.-]\*", string)  
print(string)**

**Output:**

**['simple@example.com', 'very.common@example.com', 'disposable.style.email.with+symbol@example.com', 'other.email-with-hyphen@example.com', 'fully-qualified-domain@example.com', 'user.name+tag+sorting@example.com', 'user.name@example.com', 'x@example.com', 'example-indeed@strange-example.com', 'example@s.exam', 'username@example.org', 'user%example.com@example.org', 'user@example.com']**