

5) Use regular expressions to find all email addresses in the given text.

6) Import the `json` module and use it to parse the following JSON string into a Python dictionary: `{ "name": "John", "age": 30, "city": "New York" }`

Python Code:

```
import json
```

```
# JSON string to parse.
```

```
json_string = '{ "name": "John", "age": 30, "city": "New York" }'
```

```
# Parse the JSON string.
```

```
data = json.loads(json_string)
```

```
# Print the parsed dictionary
```

```
print(data)
```

5) Use regular expressions to find all email addresses in the given text.

```
import re
```

```
def find_emails(text)
```

```
# This function finds all email addresses  
in a given expression using regular expressions
```

```
# text: The text string is to search for  
email addresses.
```

```
# Return: A list of all email addresses  
found in the string
```

```
# Regular Expressions for email Address.
```

```
email_regex = r"[a-zA-Z0-9.%+-]+
```

```
@ [a-zA-Z0-9-]+ \. [a-zA-Z]{2,}
```

```
# Find all email addresses using re.  
findall.
```

```
emails = re.findall(email_regex, text)
```


return email.

Example usage
text = "This is a sample text with
emails like john.doe@example.
com and Jane-doe@
Company.org"

emails = find_emails(text)

Print the found email addresses.

print("found email addresses:", emails)

for email in emails:
print(email)

EXERCISE ON FILE NAME XIENT.

OBJECTIVES.

1) What does file handling refer to in Python.

B): Interacting with files on the file system.

2) Which of the following is not a common mode for opening files in Python?
D: permission mode.

3) Which mode is used to open a file for reading and writing in Python.
D: "r+" (Read/write mode)

4) What method is used to read the contents of a file in Python.

D) 'read()'

5) Which method is used to write data to a file in Python?

Q: ~~File~~ write()

6) Which method is used to open a file for appending data in Python.

C: ⁱⁿ a ^{to} [Append mode]

7) How do you delete a file in Python

A: Using the 'remove()' function from the os module.

8) What is the purpose of the 'os.remove()' function in Python.

C: To delete a file.

PART (2)

- 1) Create a new file and write some content on it.
- 2) Read the Content of the file.
- 3) Append more Content to the file
- 4) Read the Content of the file again to see changes.
- 5) Delete the file.

① Python Code

```
file = open('file=John.txt', mode='w')
```

```
file.write("I will be going for evening  
work")
```

```
file.write("I stay in Mueyanga")
```

```
file.write("I love coding")
```

```
file.close()
```

② How to read Content of the file.

```
file = open('file=John.txt', mode='r')
```

```
Content = file.read()
```

```
print(Content)
```