PYTHON LAB PROGRAM 10

10. AIM: Demonstration of working with PDF, word and JSON files

a) **Write a python program to combine select pages from many PDFsfrom PyPDF2 import PdfWriter, PdfReader**

Code:

```
from PyPDF2 import PdfWriter, PdfReader

def combine_pages(selected_pages, output_file):
    pdf_writer = PdfWriter()

    for pdf_file, page_numbers in selected_pages:
        with open(pdf_file, 'rb') as pdf:
            pdf_reader = PdfReader(pdf)
            for page_num in page_numbers:
                if 1 <= page_num <= len(pdf_reader.pages):
                    page = pdf_reader.pages[page_num - 1]
                    pdf_writer.add_page(page)
                else:
                    print(f'Page {page_num} is out of range for {pdf_file}.')

    with open(output_file, 'wb') as output:
        pdf_writer.write(output)

# List of tuples containing PDF filenames and corresponding page numbers
selected_pages = [
    ('PYLAB-Fifth Program.pdf', [1, 2]),        # Select page 1 and 2 from file1.pdf
    ('PYLAB-Fourth Program.pdF', [1, 2]),    # Select page 2 and 4 from file2.pdf

    # Add more PDFs and page numbers as needed
]

output_filename = 'combined_output.pdf'
combine_pages(selected_pages, output_filename)
```

NOTE: This program allows you to extract specific pages from two PDF files, "'**PYLAB -Fifth Program.pdf"** and "'**PYLAB-Fourth Program.pdF'**," by entering the page numbers as user input. Once you input the desired page numbers, the program fetches those p ages from both PDF files and combines them into a new file called "'**combined_outpu t.pdf**." This way, you can easily compile the desired pages from multiple PDF files into one document for your convenience

b) Write a python program to fetch current weather data from the JSON file

Code

```
import json

# Load the JSON data from file
with open('weather_data.json','r') as f:
    data = json.load(f)

# Extract the required weather data
current_temp = data['main']['temp']
humidity = data['main']['humidity']
weather_desc = data['weather'][0]['description']

# Display the weather data
print(f'Current temperature: {current_temp}°C')
print(f'Humidity: {humidity}%')
print(f'Weather description: {weather_desc}')
```

Output:

```
Current temperature: 15.45°C
Humidity: 64%
Weather description: clear sky
```

NOTE: Save json file in same working directory. Copy json text into notepad select save as all files and give name weather_data.json


```
{
"coord": {
"lon": -73.99,
"lat": 40.73
},
"weather": [
{
"id": 800,
"main": "Clear",
"description": "clear sky",
"icon": "01d"
}
],
"base": "stations",
"main": {
"temp": 15.45,
"feels_like": 12.74,
"temp_min": 14.44,
"temp_max": 16.11,
"pressure": 1017,
"humidity": 64
},
"visibility": 10000,
"wind": {
"speed": 4.63,
```

```
"deg": 180
},
"clouds": {
"all": 1
},
"dt": 1617979985,
"sys": {
"type": 1,
"id": 5141,
"country": "US",
"sunrise": 1617951158,
"sunset": 1618000213
},
"timezone": -14400,
"id": 5128581,
"name": "New York",
"cod": 200
}
```