Page No.
Date / /

Program:130: Write a program of to Convert JSON TO python:

```
import json

x = '{"name": "xyz", "age": 30, "city": "Newyork"}'

# parse x:

y = json.loads(x)

# The result is a python dictionary:

print(y["name"])
print(y["age"])
print(y["city"])
```

Output:

```
xyz

30

Newyork
```

Page No.
Date / /

Program: 131: Write a program of to Convert python to JSON:

```
import json

# a python object (dict):

x = {
    "name" : "John",
    "age" : 30,
    "city" : "New York"
    }

# Convert into JSON:

y = json.dumps(x)

# the result is a JSON String:

print(y)
```

Output:

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

Page No.
Date / /

Program :232 : python program to demonstrate dumps method :

```
import json

print(json.dumps({"name":"xyz","age":30}))

print(json.dumps("hello"))

print(json.dumps(42))

print(json.dumps(True))

print(json.dumps(False))

print(json.dumps(None))
```

Output :

```
{"name":"xyz","age":30}

"hello"

42

true

False

null
```

Page No.
Date / /

Program: 133: Write a program of screen scraper in python:

Contrived.html

```
<html>
<body>
    <p id="hardworker">I am hardworker</p>
    <p id="simple">I am the simple man</p>
</body>
</html>
```

Output

→

```
From bs4 import BeautifulSoup
raw_html = open('contrived.html').read()
html = BeautifulSoup(raw_html, 'html.parser')
for p in html.select('p'):
    if p['id'] == 'simple':
        print(p.text)
```

output:
I am the simple man

Page No.
Date / /

Program 134: Write a program OF mailmerge in python:

```
# python program to mail merge
# Names are in the File names.txt
# Body OF the mail is in body.txt

# open names.txt For reading
with open("names.txt", "r", encoding=
        'utF-8') as names_File:

    # open body.txt For reading
    with open("body.txt", 'r', encoding=
            'utF-8') as body_File:

        # read entire content of the body
        body = body_File.read()

        # iterate over names
        For name in names_File:

            mail = "Hello" + name + body

            # write the mails to individual
                                    Files
            with open(name.strip() + ".txt
            ", 'w', encoding = 'utF-8')
                    as mail_File:
                mail_File.write(mail)
```

Page No.
Date / /

→ names.txt

Vipul baldha
Rakesh savaliya

→ body.txt

Mail receive.....
Thank you...!

Output:

Vipul baldha.txt

Hello vipul baldha

Mail receive.....
Thank you...!

Rakesh savaliya.txt

Hello Rakesh savaliya

Mail receive.....
Thank you...!

Page No.
Date / /

Program:135: python program to get Excel data to python (using read_excel())

→ empdata.xls

Empid	Ename	sal
1001	XYZ	45000
1002	ABC	30000
1003	JPS	20000

-

```
import pandas as Pd

df = Pd.read_excel("E:\python_prog\
                    empdata.xls","Sh-
                                  eet1")

print(df)
```

Output:

	Empid	Ename	sal
0	1001	XYZ	45000
1	1002	ABC	30000
2	1003	JPS	20000

PAGE NO.
DATE / /

program:136: Creating data frame from .csv file:

```
import pandas as pd

df = pd.read_csv("E:\python_proj\empdata1.csv")

print(df)
```

Output:

	Empid	Ename	Sal
0	1001	XYZ	45000
1	1002	ABC	30000
2	1003	JPJ	20000

program:137: Creating Data Frame from python Dictionary:

```
import pandas as pd
empdata = {"empid":[1001,1002], "ename":
           ["ABC","XYZ"], "sal":[10000,
                                 20000]}
df = pd.DataFrame(empdata)
print(df)
```

Output:

	empid	ename	sal
0	1001	ABC	10000
1	1002	XYZ	20000

Date:
Page No.:

Program:138: Write a program of Data Frame with different operations.

-> empdata2.csv

Empid	Ename	Sal	Doj
1001	GLC	45000	09-08-2002
1002	bcd	35000	01-07-2003
1003	jps	25000	02-06-2004
1004	xyz	26000	09-07-2005
1005	mnp	7000	10-01-2001

-

```
import pandas as pd

df = pd.read_csv("E:\python\empdata2.csv")

print(df)
```

Output:

	Empid	Ename	Sal	Doj
0	1001	GLC	45000	09-08-2002
1	1002	bcd	35000	01-07-2003
2	1003	jps	25000	02-06-2004
3	1004	xyz	26000	09-07-2005
4	1005	mnp	7000	10-01-2001

-

```
r,c = df.shape
print(r) # row
print(c) # column
```

Date:
Page No.:

Output:

5
4

-

```
print(df.head(2))
print(df.tail(2))
```

Output:

	Empid	Ename	Sal	Doj
0	1001	ALC	45000	09-08-2002
1	1002	bCd	35000	01-07-2003

	Empid	Ename	Sal	Doj
3	1004	XYZ	26000	09-07-2005
4	1005	mnp	7000	10-01-2001

-

```
print(df[2:5])  #Retrieving a range of Rows
```

Output:

	Empid	Ename	Sal	Doj
2	1003	jPJ	15000	02-06-2004
3	1004	XYZ	26000	09-07-2005
4	1005	mnp	7000	10-01-2001

-

```
print(df.columns)  # column name
print(df[['Empid','Sal']]) #Column data
```

Output:

Index(['Empid', 'Ename', 'Sal', 'Doj'], dtype='object')

	Empid	Sal
0	1001	45000
1	1002	35000
2	1003	15000
3	1004	26000
4	1005	7000

-

```
print("Maximum salary is = ", df['Sal'].max())

print("Minimum salary is = ", df['Sal'].min())
```

Output:

Maximum salary is = 45000

Minimum salary is = 7000

-

```
print(df[df.Sal > 30000])

print(df[['Empid']][df.Sal > 35000])

print(df.index)
```

Date:
Page No.:

Output:

	Empid	Ename	Sal	Doj
0	1001	ABC	45000	09-08-2002
1	1002	LCL	35000	07-07-2003

	Empid
0	1001

RangeIndex (start=0, stop=5, step=1)

-

```
DF1 = DF.set_index('Empid')
print(DF1.loc[1004])
```

Output:

Ename XYZ
Sal 26000
Doj 09-07-2005
Name : 1004, dtype: object