## **Experiment -10**

Python – Database connectivity

Aim: Python program to demonstrate mysql database connectivity

Theory:

### **Install a Pip Python Module**

To connect MySQL to Python, you'd need **to install the Pip Python module**. A Pip module is the *standard package manager for Python*. It allows you to install and manage additional packages and extensions that are part of the standard Python library distribution.

**Install at least one** of these packages in a virtual environment to connect MySQL using Python.

- **Mysql-client:** this client package allows you to connect to a MySQL server and access the command-line program. It comes with utilities that enable you to easily backup data, restore and administer the server. This package contains the MySQLdb module.
- **Mysql-connector-python:** this package is a MySQL driver that enables Python programs to access **MySQL databases using an API**. The package contains the *mysql.connector* module.
- **PyMySQL:** this package provides an interface for connecting to the MySQL database server. It contains the pymysql module.

# **Installing The MySQL Packages**

After creating and activating the python virtual environment, **the next thing is to install the MySQL packages**. It's advisable to install all three packages. Installing multiple modules allows you **to switch between modules anytime**. The modules use the portable SQL database API interface; this will enable you to reuse codes without any modification.

Run these codes to install the packages.

- Run this code to install the mysqlclient package *pip install mysqlclient*
- Use this code to install the mysql-connector-python package *pip install mysql-connector-python*
- And, this to install the pymysql packages pip install pymysql

### **Creating The Connection**

After installing the packages, you can connect to your MySQL databases and run commands through any of those modules.

Run this code to establish a MySQL Python connection using the MySQL connector module.

```
mydb = mysql.connector.connect(
  host="localhost",
  user="yourusername",
  password="yourpassword"
)
print(mydb)
```

Replace *yourusername* and *yourpassword* with those of the database you want to connect to.

To set up series of Python connection that opens the same database using the different MySQL packages, then **run the below sample code**.

```
#!/usr/bin/python

from __future__ import print_function
hostname = 'localhost'
username = 'yourusername'
password = 'yourpassword'
database = 'yourdbname'
```

Replace *yourusername* with the username of the MySQL database you want to connect to, *yourpassword* with the database user's password, and *yourdbname* with the database's name.

# Program:

```
from tkinter import *
from tkinter import messagebox
def login():
    uname=rollno.get()
    pwd=password.get()
    nam=name.get()
    yea=year.get()
    bran=branch.get()

print("Roll no\t"+"Pass\t" +"Name\t"+"Year\tBranch")
    print(uname +"\t"+ pwd +"\t"+ nam +"\t"+ yea +"\t"+ bran)
if uname==" or pwd==" or nam==" or yea==" or bran==":
    messagebox.showerror('Error', 'Plese enter all details')
```

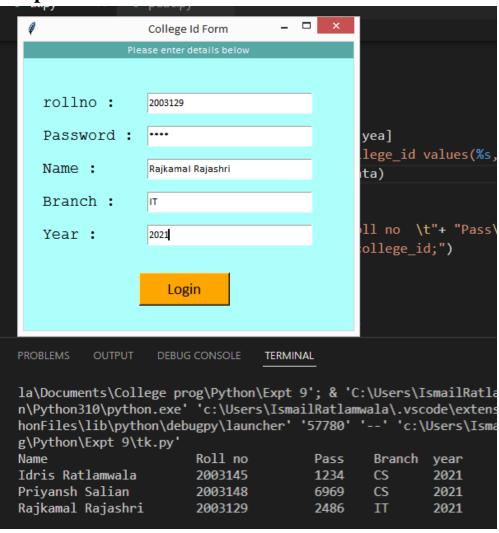
```
else:
   if uname=="2003145" and pwd=="1234":
   messagebox.showinfo('Login success', 'You have logged in\nsuccessfully!')
   else:
   messagebox.showinfo('Login failed', 'Wrong roll no or password')
def Loginform():
  global login screen
  login screen = Tk()
  login_screen.title("College Id Form")
  bgCol='#adfffc'
 login screen.geometry("400x350")
 login_screen.configure(bg=bgCol)
 global message
 global rollno
 global password
 global name
 global branch
 global year
  rollno = StringVar()
  password = StringVar()
  message=StringVar()
  name=StringVar()
  branch=StringVar()
 year=StringVar()
 Label(login screen, width="300", text="Please enter details below",
bg="#56a8a5",fg="white").pack()
 yoff=20
 llogin = Label(login screen, text="rollno :")
  llogin.config(font=("Courier", 14),bg=bgCol)
  llogin.place(x=20,y=40+yoff)
  Entry(login screen, textvariable=rollno).place(
    x=150,y=42+yoff,width=200,height=25)
  lpass = Label(login screen, text="Password :")
  lpass.config(font=("Courier", 14),bg=bgCol)
  lpass.place(x=20,y=80+yoff)
  Entry(login screen, textvariable=password ,show="*").place(
    x=150,y=82+yoff,width=200,height=25)
  lname = Label(login screen, text="Name :")
  Iname.config(font=("Courier", 14),bg=bgCol)
  Iname.place(x=20,y=120+yoff)
  Entry(login screen, textvariable=name ).place(
    x=150,y=122+yoff,width=200,height=25)
  lbra = Label(login screen, text="Branch :")
  lbra.config(font=("Courier", 14),bg=bgCol)
  lbra.place(x=20,y=160+yoff)
  Entry(login screen, textvariable=branch).place(
    x=150,y=162+yoff,width=200,height=25
  lyear = Label(login screen, text="Year :")
```

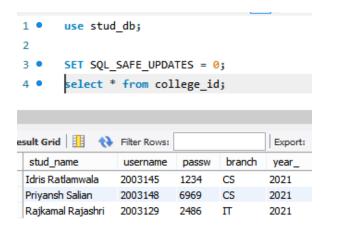
```
lyear.config(font=("Courier", 14),bg=bgCol)
lyear.place(x=20,y=200+yoff)
Entry(login_screen, textvariable=year ).place(
    x=150,y=202+yoff,width=200,height=25)

but = Button(login_screen, text="Login", width=10, height=1, bg="orange",command=login)
but.config(font=("Calibri", 14))
but.place(x=140,y=260+yoff)
```

Loginform()

login screen.mainloop()





## **Experiment-11**

Aim: Django Web Framework

## **Program:**

Creating web application using Django web framework

- Installing Django
- Creating project
- Creating App and Views
- Creating and activating model
- Admin interface -Modify database from admin interface <u>Functions used:</u>

## Theory:

### 1. Django:

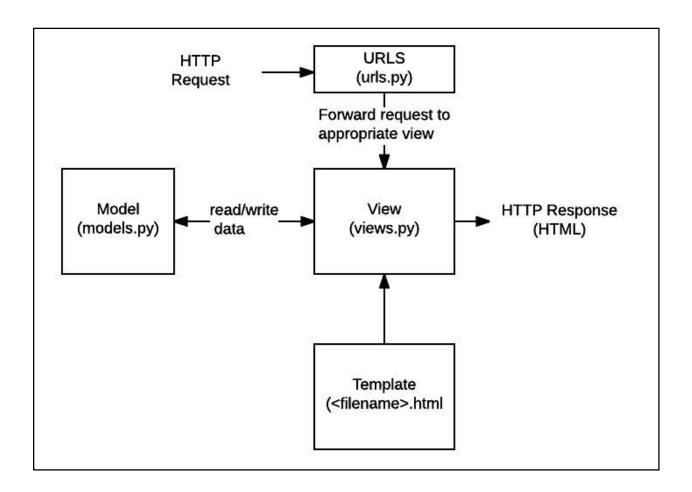
<u>Django</u> is a high-level Python Web framework that encourages rapid development and clean pragmatic design. A Web framework is a set of components that provide a standard way to develop websites fast and easily. Django's primary goal is to ease the creation of complex database-driven websites. Some well known sites that use Django include PBS, Instagram, Disqus, Washington Times, Bitbucket and Mozilla.

In a traditional data-driven website, a web application waits for HTTP requests from the web browser (or other client). When a request is received the application works out what is needed based on the URL and possibly information in POST data or GET data. Depending on what is required it may then read or write information from a database or perform other tasks required to satisfy the request. The application will then return a response to the web browser, often dynamically creating an HTML page for the browser to display by inserting the retrieved data into placeholders in an HTML template.

Django web applications typically group the code that handles each of these steps into separate files:

- URLs: While it is possible to process requests from every single URL via a single function, it is much more maintainable to write a separate view function to handle each resource. A URL mapper is used to redirect HTTP requests to the appropriate view based on the request URL. The URL mapper can also match particular patterns of strings or digits that appear in a URL and pass these to a view function as data.
- View: A view is a request handler function, which receives HTTP requests and returns HTTP responses. Views access the data needed to satisfy requests via models, and delegate the formatting of the response to templates.
- Models: Models are Python objects that define the structure of an application's data, and provide mechanisms to manage (add, modify, delete) and query records in the database.
- Templates: A template is a text file defining the structure or layout of a file (such as an HTML page), with placeholders used to represent actual content. A view can dynamically create an HTML page using an HTML template, populating it with data

from a model. A template can be used to define the structure of any type of file; it doesn't have to be HTML!



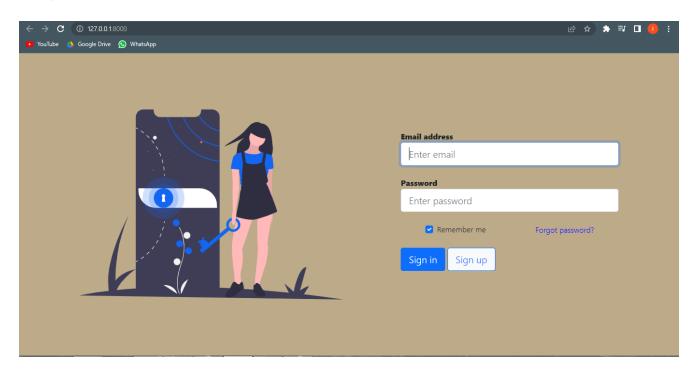
### **Program:**

```
mange.py:
#!/usr/bin/env python
"""Django's command-line utility for administrative tasks."""
import os
import sys
def main():
  """Run administrative tasks."""
 os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'expt11.settings')
 try:
    from django.core.management import execute from command line
  except ImportError as exc:
    raise ImportError(
      "Couldn't import Django. Are you sure it's installed and "
      "available on your PYTHONPATH environment variable? Did you "
      "forget to activate a virtual environment?"
    ) from exc
  execute from command line(sys.argv)
if __name__ == '__main__':
  main()
```

```
EXPLORER
                          settings.py ×
∨ EXPT11
           回の哲却
                          expt11 > 🕏 settings.py > ...

√ demoapp

                                 # Application definition
  > _pycache_
                                 INSTALLED_APPS = [
                           33
   > migrations
                                     'demoapp.apps.DemoappConfig',
                           34
  > templates
                           35
                                      'django.contrib.admin',
  __init__.py
                                      'django.contrib.auth',
                           36
  admin.py
                                      'django.contrib.contenttypes',
                           37
                                      'django.contrib.sessions',
  apps.py
                           38
                           39
                                      'django.contrib.messages',
  models.py
                           40
                                      'django.contrib.staticfiles',
  tests.py
                           41
  urls.py
                           42
  views.py
                                 MIDDLEWARE = [
                           43
 ∨ expt11
                           44
                                      'django.middleware.security.SecurityMiddleware',
   > __pycache__
                           45
                                      'django.contrib.sessions.middleware.SessionMiddleware',
  __init__.py
                           46
                                      'django.middleware.common.CommonMiddleware',
                           47
                                      'django.middleware.csrf.CsrfViewMiddleware',
  asgi.py
                                      'django.contrib.auth.middleware.AuthenticationMiddleware',
                           48
  settings.py
                                      'django.contrib.messages.middleware.MessageMiddleware',
                           49
  urls.py
                                      'django.middleware.clickjacking.XFrameOptionsMiddleware',
                           50
 wsgi.py
                           51
 ≡ db.sqlite3
                           52
                           53
                                 ROOT_URLCONF = 'expt11.urls'
 manage.py
                           54
                           55
                                 TEMPLATES = [
                           56
> TIMELINE
```



# **Experiment No: 12**

Aim: Pandas in Python

**Question 1-**

Write a pandas program to:

i) add, subtract, multiple and divide two pandas series ii) compare the elements ofthe two Pandas Series. iii) convert a dictionary to a Pandas series. iv) convert a NumPy array to a Pandas series.

#### **Function Used:**

- 1. Pandas: Pandas is a Python package that provides fast, flexible, and expressive data structures designed to make working with structured (tabular, multidimensional, potentially heterogeneous) and time series data both easy and intuitive. It aims to be the fundamental high-level building block for doing practical, real world data analysis in Python. Additionally, it has the broader goal of becoming the most powerful and flexible open source data analysis / manipulation tool available in any language. It is already well on its way toward this goal. pandas is well suited for many different kinds of data:
  - > Tabular data with heterogeneously-typed columns, as in an SQL table or Excel spreadsheet
  - > Ordered and unordered (not necessarily fixed-frequency) time series data.
  - >Arbitrary matrix data (homogeneously typed or heterogeneous) with row and column labels
  - >Any other form of observational / statistical data sets. The data actually need not be labeled at all to be placed into a pandas data structure
- **2. Pandas Series:** Pandas Series is a one-dimensional labeled array capable of holding data of any type (integer, string, float, python objects, etc.). The axis labels are collectively called index.
  - Pandas Series is nothing but a column in an excel sheet. Labels need not be unique but must be a hashable type. The object supports both integer and label-based indexing and provides a host of methods for performing operations involving the index.
- **3. Operations on Series:** Basic arithmetic operations like addition, subtraction, multiplication, and division on two Pandas Series can be performed.

Perform the required arithmetic operation using the respective arithmetic operator between the two Series

![image.png](attachment:image.png)

Result can be assigned the to another Series.

Similarly Relation Operators can be used to compare two Series. The result is obtained as a new series with boolean values by element to element comparison ![image-2.png](attachment:image-2.png)

![image-3.png](attachment:image-3.png)

**4. Numpy:** NumPy is a Python library used for working with arrays.lt also has functions for working in domain of linear algebra, fourier transform, and matrices. NumPy was

created in 2005 by Travis Oliphant. It is an open source project and you can use it freely. NumPy stands for Numerical Python.

```
1)
<u>Code</u>:
```

import pandas as pd
s1=pd.Series({'one':6,'two':2,'three':3},index=['one','two','four'])
s2=pd.Series({'six':4,'two':9,'one':7}) print(f'Series s1 :\n',s1)
print(f'\nSeries s2 :\n',s2)

#Arithmetic operations on series

 $s3=s1+s2 \quad s4=s1-s2 \quad s5=s1*s2 \\ s6=s1/s2print(f'\n\nAddition of series : \n\{s3\}') \quad print(f'\nSubtraction of series : \n\{s4\}') \quad print(f'\nMultiplication of series : \n\{s5\}') \\ print(f'\nDivision of series : \n\{s6\}')$ 

### Output:

```
Series s1:
one 6.0
two
      2.0
four NaN
dtype: float64
Series s2 :
six 4
two
      9
     7
one
dtype: int64
                                       Multiplication of series :
Addition of series :
four NaN
                                       four
                                              NaN
one 13.0
                                       one
                                             42.0
                                       six
six
      NaN
                                              NaN
     11.0
                                       two
                                              18.0
dtype: float64
                                       dtype: float64
Subtraction of series :
                                       Division of series :
                                       four NaN
four NaN
                                       one 0.857143
one
     -1.0
six
                                       six NaN
two 0.222222
     NaN
two -7.0
                                       dtype: float64
dtype: float64
```

### 2) Code:

```
s1=pd.Series({'name':'rio','roll':80,'sem':'2'})
s2=pd.Series({'name':'tokyo','roll':45,'sem':'4'}) print(f'Series
s1:\n',s1) print(f'\nSeries s2:\n',s2) #Comparision
operators s3=s1>s2
s4=s1>=s2 s5=s1<s2 s6=s1<=s2
s7=s1==s2 s8=s1!=s2
```

```
s9=s1.equals(s2)
s10=s1.compare(s2)
print(f'\n\nGreater than :\n{s3}') print(f'\nGreater than
or equal to :\n{s4}') print(f'\nLess than :\n{s5}')
print(f'\nLess than or equal to:\n{s6}') print(f'\nEqual
to:\n{s7}') print(f'\nNot equal to:\n{s8}')
print(f'\nequal() :{s9}') print(f'\ncompare():\n{s10}')
```

### **Output:**

```
Series s1:
 name rio
roll 80
sem 2
dtype: object
Series s2 :
name tokyo
roll
        45
         4
dtype: object
Greater than :
name False
roll False
dtype: bool
Greater than or equal to :
name False
roll True
sem False
dtype: bool
 compare():
   self other
 name rio tokyo
 roll 80 45
 sem 2
             4
```

## 3) <u>Code:</u>

#Converting dictionary to pandas series details=dict(name='Monica', roll=55, stream='Computer\_Science') s1=pd.Series(details) print(f'Dictionary t0 Pandas Series :\n',s1)

```
Dictionary t0 Pandas Series :
name Monica
roll 50
stream Computer_Science
dtype: object
```

### 4) Code:

```
import numpy as np #Converting numpy arrays to pandas series nd_arr=np.array(['Lily',"CS",'TSEC']) s1=pd.Series(nd_arr) print(f'Numpy arrays to Pandas Series:\n',s1)
```

### **Output:**

```
Numpy arrays to Pandas Series :

0 Lily

1 CS

2 TSEC

dtype: object
```

#### Question2-

Write a program to read csv file in a dataframe, replace missing values with anyvalue, drop the row if all values are missing or contain null values.

#### **Function Used:**

- 1. Pandas DataFrame: Pandas DataFrame is two-dimensional sizemutable, potentially heterogeneous tabular data structure with labeled axes (rows and columns). A Data frame is a two-dimensional data structure, i.e., data is aligned in a tabular fashion in rows and columns. Pandas DataFrame consists of three principal components, the data, rows, and columns.
- 2. CSV file: A comma-separated values (CSV) file is a plaintext file with a .csv extension that holds tabular data. This is one of the most popular file formats for storing large amounts of data. Each row of the CSV file represents a single table row. The values in the same row are by default separated with commas, but you could change the separator to a semicolon, tab, space, or some other character.
- 3. read\_csv(): Pandas read\_csv() function imports a CSV file to DataFrame format. header: this allows you to specify which row will be used as column names for your dataframe. Expected an int value or a list of int values. Default value is header=0, which means the first row of the CSV file will be treated as column names.
- 4. head(): The head() function is used to get the first n rows.
  This function returns the first n rows for the object based on position. It is useful for quickly testing if your object has the right type of data in it.
- **5. isnull():** isnull() function detect missing values in the given series object. It return a boolean same-sized object indicating if the values are NA. Missing values gets mapped to True and non-missing value gets mapped to False.
- **6. fillna():** DataFrame.fillna() method fills(replaces) NA or NaN values in the DataFrame with the specified values. fillna() method can be used to fill NaN values in the whole DataFrame, or specific columns, or modify inplace, or limit on the number of fillings, or choose an axis along which filling has to take place etc.

7. dropna(): Pandas dropna() method allows the user to analyze and drop Rows/Columns with Null values in different ways. Parameters: axis: axis takes int or string value for rows/columns. Input can be 0 or 1 for Integer and 'index' or 'columns' for String.

### Code:

```
import pandas as pd import numpy as np #read csv file df=pd.read_csv('flights_data.csv') df=df.head(50) print("\033[1m Dataframe of flights_data.csv file:::: \033[0m") print(df) #finding all the values with NAN print('\n\n\033[1m Boolean Dataframe of movies.csv file having values NAN :::: \033[0m') print(df.isnull()) #filling all NAN values with 99999 print('\033[1m Dataframe with all values filled with Indigo ::::\033[0m') print(df.fillna('Indigo')) #Droping all the rows with NAN values print('\n\n \033[1m Dataframe neglecting all rows with NAN :::: \033[0m') print(df.dropna())
```

```
Dataframe of flights data.csv file::::
             Airline Date_of_Journey ...
                                                     Additional_Info Price
              IndiGo 24/03/2019 ...
                                                             No info
                                                                       3897
          Air India
                          1/05/2019
                                                              No info
       Jet Airways
                          9/06/2019 ...
                                                             No info 13882
             IndiGo 12/05/2019 ...
IndiGo 01/03/2019 ...
3
                                                             No info
                                                                       6218
                                                             No info 13302
           SpiceJet
                       24/06/2019 ...
                                                             No info
        Jet Airways
Jet Airways
                         12/03/2019 ... In-flight meal not included 11087
                       01/03/2019 ...
                        12/03/2019 ... In-flight meal not included 11087 27/05/2019 ...
                                                              No info 22278
         Jet Airways
8
  Multiple carriers
        Air India
10
                         1/06/2019 ...
                                                              No info
                         18/04/2019 ...
          IndiGo
Air India
11
                                                              No info
                                                                       4174
                        24/06/2019
12
                                                              No info
                                                                       4667
       Jet Airways
                          9/05/2019 ... In-flight meal not included
         IndiGo
Air India
                        24/04/2019 ...
14
                                                              No info
                                                                       4804
15
                         3/03/2019 ...
                                                              No info 14011
                       15/04/2019 ...
16
            SpiceJet
                                                              No info
                                                                        5830
        Jet Airways
Air India
                                    ... In-flight meal not included
17
                         12/06/2019
                                                                       10262
18
                        12/06/2019 ...
                                                              No info 13381
        Jet Airways
GoAir
                        27/05/2019 ... In-flight meal not included 12898
19
                          6/03/2019 ...
20
                                                              No info 19495
         Air India 21/03/2019 ...
IndiGo 3/04/2019 ...
                                                              No info
                                                                       6955
                                                              No info
                                                                       3943
```

Ud	taframe with all values		_	9	٠		1 T-C-	D
307	Airline Date				Add	alti	onal_Info	
)	IndiGo	24/03/2019					No info	
1	Air India	1/05/2019					No info	
2	Jet Airways	9/06/2019					No info	
3	IndiGo	12/05/2019					No info	
1	IndiGo	01/03/2019					No info	13302
5	SpiceJet	24/06/2019					No info	3873
5	Jet Airways	12/03/2019		In-flight	meal	not	included	11087
7	Jet Airways	01/03/2019					No info	22270
3	Jet Airways	12/03/2019		In-flight	meal	not	included	11087
9	Multiple carriers	27/05/2019					No info	8625
10	Air India	1/06/2019					No info	8907
11	IndiGo	18/04/2019					No info	4174
12	Air India	24/06/2019					No info	4667
13	Jet Airways	9/05/2019		In-flight	meal	not	included	9663
14	IndiGo	24/04/2019					No info	4804
15	Air India	3/03/2019					No info	14011
16	SpiceJet	15/04/2019					No info	5830
17	Jet Airways	12/06/2019		In-flight	meal	not	included	10262
18	Air India	12/06/2019					No info	
19	Jet Airways	27/05/2019	• • •	In-flight	meal	not	included	12898
20	GoAir	6/03/2019					No info	
21	Air India	21/03/2019					No info	6955
22	IndiGo	3/04/2019					No info	
	- 1·a	4 (05 (0040						1000

#### **Question 3-**

Write a program to demonstrate merging of Frames: i) on the basis of id

ii) using how

#### **Function Used:**

1. Merge DataFrames: Pandas DataFrame merge() function is used to merge two DataFrame objects with a database-style join operation. merge() arguments-Pandas provides a single function, merge, as the entry point for all standard database join operations between DataFrame objects - pd.merge(left, right, how='inner', on=None, left\_on=None, right\_on=None, left\_index=False, right index=False, sort=True) Here, we have used the following parameters -

**left** – A DataFrame object.

right - Another DataFrame object.

on - Columns (names) to join on. Must be found in both the left and right DataFrame

**objects.left\_on** – Columns from the left DataFrame to use as keys. Can either be column names or arrays with length equal to the length of the DataFrame.

**right\_on** – Columns from the right DataFrame to use as keys. Can either be column names or arrays with length equal to the length of the DataFrame.

left\_index - If True, use the index (row labels) from the left DataFrame as its join key(s). In case of a DataFrame with a MultiIndex (hierarchical), the number of levels must match the number of join keys from the right DataFrame.

**right\_index** – Same usage as left\_index for the right DataFrame.

**how** – One of 'left', 'right', 'outer', 'inner'. Defaults to inner. Each method has been described below.

**sort** – Sort the result DataFrame by the join keys in lexicographical order. Defaults to True, setting to False will improve the performance substantially in many cases.

### 1) Code:

```
import pandas as pd df left=pd.DataFrame({
     'Id':[79,78,77,76,75],
     'Name':['Isha','Aanchal','Nishita','Laveena','Muskan'],
      'Subject':['Python','Java','App Dev','AOA','Web Dev']
      })
#df_left=df_left.set_index("Id") df_right=pd.DataFrame({
     'Id':[79,78,77,76,75],
      'Name':['Dash','Lily','Noah','Sara','Joe'],
'Subject':['Gamer','Python','App_Dev','AOA','PM']
      })
#df_right=df_right.set_index('Id')
print(f'First Dataframe :::: \n{df_left}')
print(f'\n\nSecond Dataframe ::::
\n{df_right}')
#using on=''
print(f'\n\n\033[1m Merging Dataframe using on argument ::::\033[0m')
print(pd.merge(df_left,df_right,on=['Id','Subject']))
```

### Output:

```
First Dataframe ::::
  Id Name Subject
0 79
       Isha Python
1 78 Aanchal
              Java
2 77 Nishita App_Dev
3 76 Laveena AOA
4 75 Muskan Web_Dev
Second Dataframe ::::
  Id Name Subject
0 79 Dash Gamer
1 78 Lily Python
2 77 Noah App Dev
3 76 Sara AOA
4 75 Joe
             PM
Merging Dataframe using on argument ::::
  Id Name x Subject Name y
0 77 Nishita App Dev Noah
1 76 Laveena AOA Sara
```

### 2) Code:

```
print(f'\033[1m Merging Dataframe using how="outer" argument ::::\033[0m') print(pd.merge(df_left,df_right,on='Subject',how='outer')) #using how='inner' print(f'\n\n\033[1m Merging Dataframe using how="inner" argument ::::\033[0 m') print(pd.merge(df_left,df_right,on='Subject',how='inner')) #using how='left' print(f'\n\n\033[1m Merging Dataframe using how="left" argument :::\033[0m') print(pd.merge(df_left,df_right,on='Subject',how='left')) #using how='right' print(f'\n\n\033[1m Merging Dataframe using how="right" argument ::::\033[0m') print(pd.merge(df_left,df_right,on='Subject',how='right" argument ::::\033[0m') print(pd.merge(df_left,df_right,on='Subject',how='right'))
```

### **Output:**

```
Merging Dataframe using how="outer" argument ::::
  Id_x Name_x Subject Id_y Name_y
0 79.0
        Isha Python 78.0
                             Lily
1 78.0 Aanchal
                Java NaN
                             NaN
2 77.0 Nishita App Dev 77.0 Noah
3 76.0 Laveena AOA 76.0 Sara
4 75.0 Muskan Web Dev NaN
                             NaN
5 NaN NaN Gamer 79.0 Dash
6 NaN NaN PM 75.0 Joe
Merging Dataframe using how="inner" argument ::::
  Id_x Name_x Subject Id_y Name_y
  79
        Isha Python 78
0
                            Lily
    77 Nishita App_Dev
                        77
1
                             Noah
    76 Laveena AOA 76 Sara
Merging Dataframe using how="left" argument :::
  Id_x Name_x Subject Id_y Name_y
   79
        Isha Python 78.0
                            Lily
    78 Aanchal
                Java NaN
                             NaN
    77 Nishita App_Dev 77.0
2
                            Noah
    76 Laveena AOA 76.0 Sara
3
    75 Muskan Web_Dev NaN NaN
```

# Merging Dataframe using how="right" argument ::::

	Id_x	Name_x	Subject	Id_y	Name_y
0	NaN	NaN	Gamer	79	Dash
1	79.0	Isha	Python	78	Lily
2	77.0	Nishita	App_Dev	77	Noah
3	76.0	Laveena	AOA	76	Sara
4	NaN	NaN	PM	75	Joe