## Certificate Course in Machine Learning using Python [6 Weeks]

Certificate Course in Machine Learning using Python [6 Weeks] Day 9 <u>Dashboard</u> My courses

Exercises and Practice Problems in Python

Exercises and Practice Problems in Python Exercises and Practice Problems (Pandas DataFrame)

```
Q. Create a data frame:
'Name': ['Ankit', 'Amit', 'Aishwarya', 'Priyanka', 'Priya', 'Shaurya'],
'Age': [21, 19, 20, 16, 17, 21],
'Stream': ['Math', 'Commerce', 'Science', 'Math', Commerce, 'Science'],
'Percentage': [88, 92, 95, 70, 65, 78]}
import pandas as pd
d={'Name': ['Ankit', 'Amit', 'Aishwarya', 'Priyanka', 'Priya', 'Shaurya'],
 'Age': [21, 19, 20, 16, 17, 21],
 'Stream': ['Math', 'Commerce', 'Science', 'Math', 'Commerce', 'Science'],
 'Percentage': [88, 92, 95, 70, 65, 78]}
df=pd.DataFrame(d)
df
Q. Insert a new row - Name: Sahil, Age-23, Stream- Commerce, Percentage-88.
```

```
new_df=pd.DataFrame([['Sahil',23,'Commerce',88]],columns=['Name','Age','Stream','Percentage'])
df=df.append(new_df,ignore_index=True)
df
```

Q. Select rows where percentage is >80

print(df.loc[df['Percentage']>80])

```
Q. Selecting all the rows from the given dataframe in which 'Stream' is Commerce
      print(df.loc[df['Stream'].isin(['Commerce','Science'])])
Q. Selecting all the rows from the given dataframe in which 'Age' is greater than 18
      print(df.loc[df['Age']>18])
Q. Print sum of age and percentage only
      print("Sum of age",sum(df['Age']))
      print("Sum of Percentage",sum(df['Percentage']))
Q. Get the first 3 rows of above DataFrame
     df.head(3)
Q. Write a Pandas program to count the number of rows and columns of a DataFrame
      print("Total rows in df dataframe:", df.shape[0])
      print("Total columns in df dataframe:", df.shape[1])
Q. Print mean value of Age and Percentage.
     import numpy as np
      mean_age=np.mean(df['Age'])
      print("Mean value of Age:{:.2f}".format(mean_age))
      print("Mean value of Percentage:{:.2f}".format(np.mean(df['Percentage'])))
Q. Find Minimum age
      print("Minimum age:",min(df['Age']))
 Previous
             Next
```

PREVIOUS ACTIVITY
■ Day 8 Assignment
Jump to
NEXT ACTIVITY
Python Demonstration Code: Day 9 ▶

## Stay in touch

Contact Us

- http://nielit.gov.in/gorakhpur/
- ☑ abhinav@nielit.gov.in or ajay.verma@nielit.gov.in