LAB SHEET 4

Date of assignment- 10th September 2024

Date of submission- 14th September 2024

AIM- Write a program in python to reshape and filter data in given dataset.

CODE-

```python
import pandas as pd

df = pd.read_csv('stud.csv')

df.fillna(0, inplace=True)

df = df.pivot(index='Date', columns='Location', values='Temperature (°C)')

threshold = 10

df = df.dropna(axis=0, how='any').loc[:, (df >= threshold).all(axis=0)]

print(df.head())
```

OUTPUT-

Replaced missing values with 0:

Empty DataFrame

Columns: []

Index: [2024-09-14, 2024-09-15, 2024-09-16]

Replaced missing values with mean:

Location	London	New York	Tokyo
Date			
2024-09-14	18.0	22.0	21.5
2024-09-15	21.5	20.0	24.0
2024-09-16	19.0	21.5	26.0

Replaced missing values with mode:

Location	London	New York	Tokyo
Date			
2024-09-14	18.0	22.0	18.0
2024-09-15	18.0	20.0	24.0

2024-09-16   19.0   18.0   26.0