```
import numpy as np
import pandas as pd
marks=np.array([[85,90,98],[88,75,52],[99,95,85],[100,98,97],[56,65,75]])
print(marks)
   [[ 85 90 98]
₹
     [ 88 75 52]
     [ 99 95 85]
     [100 98 97]
     [ 56 65 75]]
average_marks = np.mean(marks)
min_marks = np.min(marks)
max_marks = np.max(marks)
print("\nAverage Marks (Overall):", average_marks)
print("Minimum Marks:", min_marks)
print("Maximum Marks:", max_marks)
→
     Average Marks (Overall): 83.8666666666666
    Minimum Marks: 52
    Maximum Marks: 100
print("\nMarks of 2nd and 4th student:\n", marks[[1, 3]])
₹
    Marks of 2nd and 4th student:
     [[ 88 75 52]
     [100 98 97]]
above_80 = marks > 80
print("\nBoolean Matrix (True if >80):\n", above_80)
₹
    Boolean Matrix (True if >80):
     [[ True True True]
     [ True False False]
     [ True True True]
     [ True True True]
     [False False False]]
students_above_80 = marks[np.any(above_80, axis=1)]
print("\nStudents scoring above 80 in any subject:\n", students_above_80)
∓
     Students scoring above 80 in any subject:
     [[ 85 90 98]
     [ 88 75 52]
     [ 99 95 85]
     [100 98 97]]
reshaped = marks.T
print("\nSubject-wise Performance:\n", reshaped)
→
     Subject-wise Performance:
     [[ 85 88 99 100 56]
     [ 90 75 95 98 65]
     [ 98 52 85 97 75]]
```