

Sessional-2 Lab Performance Test

1. Create a 3x3 NumPy array with random integers between 10 and 99.
 - i. Calculate the **mean**, **maximum**, and **standard deviation** of the array.

2. Create a Pandas DataFrame with the following data:

Name	Age	Marks
John	22	85
Alice	20	91
Bob	23	76
David	21	66

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| <ol style="list-style-type: none">i. Display only rows where Marks > 80.ii. Add a new column Grade based on:<ul style="list-style-type: none">• A if Marks \geq 90• B if Marks \geq 80• C otherwiseiii. Replace all values in Name column to uppercase. | Using .loc and .iloc: <ol style="list-style-type: none">i. Select the second row and third column using .iloc.ii. Select rows where Age > 21 using .loc.iii. Set the Marks of David to 75. |
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Using .loc and .iloc:

- i. Select the second row and third column using .iloc.
- ii. Select rows where Age > 21 using .loc.
- iii. Set the Marks of David to 75.