

Pandas Assessment

- Q1. Create a Pandas Series using a list of 5 fruits. Print the 3rd fruit using index.
- Q2. You are given a list of student names and their scores. Convert it into a Series and display the score of the student named "Anu".
- Q3. Create a DataFrame with columns Name, Age, Marks. Display only the Marks column.
- Q4. From a DataFrame of employees with columns Name, Salary, and Department, use .loc to display the salary of the employee named "Raj".
- Q5. Use .iloc to print the first 3 rows from a DataFrame containing student information.
- Q6. Given a DataFrame of customer records, use .at to update the value of a specific cell at row index 2 and column Name.
- Q7. Create a DataFrame with some NaN values in the Marks column. Replace all NaN values with the average (mean) of the Marks column.
- Q8. Load an Excel file named students.xlsx containing student data. Print the first 5 rows of the file.
- Q9. After loading the Excel file, check and display the rows where the Age column is null using .loc.
- Q10. Calculate the mean of the Salary column from a DataFrame of employee details.
- Q11. You are given a DataFrame df with missing values in the Score column. Use .loc to fill only those missing values with 75.
- Q12. Given a DataFrame df with student grades, use .iloc to print rows 2 to 5 and columns 1 to 3.
- Q13. Use .loc to filter and print all rows where the Age is greater than 20 from a DataFrame.
- Q14. Create a DataFrame from a dictionary of items (Item, Quantity, Price) and calculate the total price for each row using a new column Total = Quantity * Price.
- Q15. You have a DataFrame of city temperatures. Some values in the Temperature column are missing. Fill them using the average temperature calculated using mean().