

1) Student Grade Checker

Topics: If-Else, Elif, Comparison Operators, Logical Operators, Strings

Problem:

Ask the user to enter marks (0-100).

- If marks $\geq 90 \rightarrow$ Print "A Grade"
- 70-89 \rightarrow Print "B Grade"
- 50-69 \rightarrow Print "C Grade"
- Else \rightarrow Print "Fail"

2) Dictionary Student Record

Topics: Dictionary Create, Access, Add, Update, Remove, Keys, Values, Clear

Problem:

Create a dictionary storing student data: {"name": "Shri", "age": 25, "course": "Python"}

- Add key "marks"
- Update age
- Remove course
- Print all keys and values
- Clear dictionary

3) Simple Bank Account Class

Topics: Class, Member Functions, Data Members

Problem:

Create a BankAccount class with:

- deposit()
- withdraw()
- check_balance()

Create an object and perform all operations, printing results.

4) Temperature Line Chart

Topics: Line Plot, Markers, Grid, Pyplot

Problem:

Given temperatures recorded over 7 days: [28, 30, 29, 31, 32, 33, 34]

Plot a **line graph** showing the temperature trend with:

- Circular markers
- Line width 2
- Title: "Weekly Temperature Trend"
- Labeled axes
- Grid enabled

5) Handle Missing Data

Patient	Sugar_Level
P1	110
P2	NaN
P3	95
P4	130
P5	NaN
P6	105
P7	120
P8	NaN

- Create the DataFrame in Pandas
- Print missing values
- Calculate mean
- Replace NaN with the mean
- Show the cleaned DataFrame