Practice Exercise – 2

Question – 1

Write python code for the following:

List of employees (name, rating)

Deep copy to ensure full independence

Remove the employee with the lowest rating from the deep copy

Count the number of employees in both lists

Sort employees by rating

Print employee name with the highest rating

Remove all elements from the deep copy

Print both the lists

Question - 2

Input data for 10 customers and their bill details with each entry: (purchase\_value, cost\_price, selling\_price). Give discount of 5 to 10% for each item. Print the customer purchase details and profit with discount.

Question - 3

Read employee details and their skills. Assign employees to projects based on the skills using set operations.

Example

LP = {"Raunak", "Asad"}        # Python

LJ = {"Raunak", "Kushal"}      # Java

LN = {"Kushal", "Abhayraj"}    # .NET

python\_project = LP - LJ - LN

java\_project = LJ - LP - LN

dotnet\_project = LN - LP – LJ

Multi-skilled employees

multi\_skilled = (LP & LJ) | (LP & LN) | (LJ & LN)

Question - 4

Assume Each patient is represented as a **tuple** containing their name, age, and a **list of temperature readings** taken throughout the day.

Write a Python program to:

1. Identify patients whose **average temperature exceeds 99°F**.
2. Return a **list of tuples** containing their name and average temperature.