M8P1

Input	Process	Output
Principle amount (float) Interest rate (float)	Loop through 5 years to calculate: Interest for each year, Ending balance, Update principle for the next year as the ending balance.	Beginning balance Ending balance Total interest earned over the 5 years.

M8P2

Input	Process	Output
fixed sequence	Generate the Fibonacci sequence using a loop, Each number is the sum of the previous two numbers, starting from 0 and 1	Display the first 20 Fibonacci numbers.

M8P3

Input	Process	Output
Employee last name (string) Employee salary (float)	Read employee data (last name and salary). For each employee Determine the bonus rate based on salary: 30% for salary >= 100,000 25% for salary between 50,000 and 99,999 15% for salary below 50,000 Calculate bonus and sum the total bonuses.	Display for each employee: Last name, Salary, Bonus Total bonuses paid out.

M8P4

Input	Process	Output
Item name (string) Quantity (integer) Price per item (float)	For each item: Calculate the extended price: Sum the total extended prices. Count the number of items (orders).	For each item: Name, quantity, price, and extended price Total extended prices Number of orders

		Average order value.

M8P5

Input	Process	Output
Student last name (string) District code (string: "I" or "O") Number of credits (integer)	For each student: If district code is "I", tuition is credits * 250 If district code is "O", tuition is credits * 500 Sum the total tuition owed.	For each student: Last name, Credits taken, Tuition owed Total tuition owed Number of students.