1.Write a Python program to generate an invoice for a customer using their name, product, and price details

# Invoice Generator

customer\_name = input("Enter customer name: ")

product = input("Enter product name: ")

price = float(input("Enter product price: ₹"))

print("\n----- INVOICE -----")

print(f"Customer Name: {customer\_name}")

print(f"Product: {product}")

print(f"Price: ₹{price:.2f}")

print("-------------------")

2.Take a student’s name and grade, and print a formatted report like:

"Student: Arjun Mehta\nFinal Grade: A"

# Student Report Formatter

student\_name = input("Enter student's name: ")

grade = input("Enter final grade: ")

print(f"\nStudent: {student\_name}\nFinal Grade: {grade}")

3.Write a program that removes extra spaces from a user-entered message.

# Remove extra spaces from message

message = input("Enter a message with extra spaces: ")

clean\_message = " ".join(message.split())

print("\nCleaned Message:")

print(clean\_message)

4.Take a feedback string and count how many times the word “good” appears in it (case-insensitive)

# Count occurrences of "good"

feedback = input("Enter feedback: ")

count\_good = feedback.lower().count("good")

print(f"\nThe word 'good' appeared {count\_good} time(s).")

5.Check if a password contains at least 1 uppercase letter, 1 lowercase letter, 1 digit, and is at least 8 characters long.

# Password strength checker

password = input("Enter a password: ")

has\_upper = any(char.isupper() for char in password)

has\_lower = any(char.islower() for char in password)

has\_digit = any(char.isdigit() for char in password)

is\_long = len(password) >= 8

if has\_upper and has\_lower and has\_digit and is\_long:

print("Password is strong.")

else:

print("Password is weak. Make sure it has:")

if not has\_upper: print("- At least one uppercase letter")

if not has\_lower: print("- At least one lowercase letter")

if not has\_digit: print("- At least one digit")

if not is\_long: print("- Minimum length of 8 characters")