# Function to create a new student record

def add\_student(student\_dict, name, grade, attendance):

student\_dict[name] = {'Grade': grade, 'Attendance': attendance}

# Function to update the grade of an existing student

def update\_grade(student\_dict, name, new\_grade):

if name in student\_dict:

student\_dict[name]['Grade'] = new\_grade

else:

print(f"Student {name} not found.")

# Function to update the attendance of an existing student

def update\_attendance(student\_dict, name, new\_attendance):

if name in student\_dict:

student\_dict[name]['Attendance'] = new\_attendance

else:

print(f"Student {name} not found.")

# Function to print all student records

def print\_students(student\_dict):

for name, details in student\_dict.items():

print(f"Name: {name}, Grade: {details['Grade']}, Attendance: {details['Attendance']}")

# Function to sort students by name

def sort\_by\_name(student\_dict):

return dict(sorted(student\_dict.items()))

# Function to sort students by grade

def sort\_by\_grade(student\_dict):

return dict(sorted(student\_dict.items(), key=lambda item: item[1]['Grade']))

# Function to sort students by attendance

def sort\_by\_attendance(student\_dict):

return dict(sorted(student\_dict.items(), key=lambda item: item[1]['Attendance'], reverse=True))

# Main function

if \_\_name\_\_ == "\_\_main\_\_":

students = {}

# Add some students

add\_student(students, "Alice", "A", 95)

add\_student(students, "Bob", "B+", 87)

# Update student grades

update\_grade(students, "Alice", "A+")

update\_grade(students, "Bob", "B")

# Update student attendance

update\_attendance(students, "Bob", 90)

update\_attendance(students, "Alice", 85)

# Print all student records

print("All Students:")

print\_students(students)

print("\nSorted by Name:")

sorted\_by\_name = sort\_by\_name(students)

print\_students(sorted\_by\_name)

print("\nSorted by Grade:")

sorted\_by\_grade = sort\_by\_grade(students)

print\_students(sorted\_by\_grade)

print("\nSorted by Attendance:")

sorted\_by\_attendance = sort\_by\_attendance(students)

print\_students(sorted\_by\_attendance)