**Lesson 6 Assignment**

**Source Code:**

def main():

# Initialize an empty dictionary to store student information

student\_info = {

"Jim": {"id": 1, "gpa": 3.1, "credits-completed": 97.0, "grades": [80, 50, 100, 98]},

"Sarah": {"id": 2, "gpa": 3.6, "credits-completed": 40.0, "grades": [80, 98]}

}

# Print the entire dictionary for reference

print(student\_info)

# Print a heading and list of students

print("\nList of Students")

for name in student\_info:

print(name)

# Print student information in tabular format

print("\nStudent Information")

print("Student\tID\tGPA\tCredits Completed\tGrades")

for name, data in student\_info.items():

print(f"{name}\t{data['id']}\t{data['gpa']}\t{data['credits-completed']}\t\t{data['grades']}")

# Print detailed student info using a loop with key access

print("\nAccessing Student Information Using the Key in a Loop")

for name, data in student\_info.items():

print(f"{name} {data}")

# Remove a student using pop() and print confirmation

print("\nSarah has dropped out, removing from student info registry")

student\_info.pop("Sarah", "Student not found")

print(student\_info)

# Access and print GPA for a specific student using get()

print("\nGetting Jim's GPA")

print(student\_info["Jim"].get("gpa"))

# Clear the student registry using clear() and print confirmation

print("\nStudents have graduated, clearing the student registry")

student\_info.clear()

print(student\_info)

# Include completion message

print("\nCompleted by, Yashoda Dhital")

# Run the main function

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

main()

**Output:**

