**Assignment 5**

**# Problem 1**

seasons = ("Winter", "Spring", "Summer", "Autumn")

def get\_season(month):

if month in (12, 1, 2):

return seasons[0] # Winter

elif month in (3, 4, 5):

return seasons[1] # Spring

elif month in (6, 7, 8):

return seasons[2] # Summer

elif month in (9, 10, 11):

return seasons[3] # Autumn

else:

return "Invalid month"

month = int(input("Enter the number of the month (1-12): "))

print(f"The season is: {get\_season(month)}")

**# Problem 2**

names = set()

while True:

name = input("Enter a name (or press enter to quit): ")

if name == "": # Stop when an empty string is entered

break

if name in names:

print("Existing name")

else:

print("New name")

names.add(name)

print("\nThe entered names are:")

for name in names:

print(name)

**# Problem 3**

airports = {}

def airport\_program():

while True:

print("\nOptions:")

print("1. Enter a new airport")

print("2. Fetch an airport's information")

print("3. Quit")

choice = input("Choose an option (1, 2, or 3): ")

if choice == "1":

icao\_code = input("Enter the ICAO code of the airport: ").upper()

name = input("Enter the name of the airport: ")

airports[icao\_code] = name

print(f"Airport {name} with ICAO code {icao\_code} has been added.")

elif choice == "2":

icao\_code = input("Enter the ICAO code of the airport to fetch: ").upper()

if icao\_code in airports:

print(f"The airport with ICAO code {icao\_code} is {airports[icao\_code]}.")

else:

print(f"No airport found with ICAO code {icao\_code}.")

elif choice == "3":

print("Exiting the program.")

break

else:

print("Invalid option. Please choose 1, 2, or 3.")

airport\_program()