**Lesson 9 Assignment**

**Source Code:**

# Function to get the user's monthly income

def get\_monthly\_income():

while True:

# Prompt the user for income

income = input("Enter your monthly income: ").strip()

# Check if the input is numeric

if income.replace('.', '', 1).isdigit():

income = float(income)

if income < 0: # Check if the income is negative

print("Income cannot be negative. Please enter a valid amount.")

else:

return income # Return the valid income

else:

print("Invalid input. Please enter a valid number.")

# Function to get a list of expenses

def get\_expenses():

expenses = [] # Initialize an empty list for expenses

while True:

# Prompt the user for an expense

expense = input("Enter an expense (or type 'complete' to finish): ").strip()

if expense.lower() == 'complete': # Exit the loop if 'done' is entered

break

elif expense.replace('.', '', 1).isdigit():

expense = float(expense)

if expense < 0: # Check if the expense is negative

print("Expense cannot be negative. Please enter a valid amount.")

else:

expenses.append(expense) # Add valid expense to the list

else:

print("Invalid input. Please enter a valid number.")

return expenses # Return the list of expenses

# Main function

def main():

print("Welcome to Yashoda's Budget Calculator!") # Introduce the program

# Get income and expenses

income = get\_monthly\_income()

expenses = get\_expenses()

# Calculating total expenses and remaining budget

total\_expenses = sum(expenses)

remaining\_budget = income - total\_expenses

# Displaying results with formatted output

print("\nBudget Report ")

print(f"Total Income: ${income:,.2f}")

print(f"Total Expenses: ${total\_expenses:,.2f}")

print(f"Remaining Budget: ${remaining\_budget:,.2f}")

# Displaying each expense with numbering

print("\nComplete Expense List ")

for i, expense in enumerate(expenses, start=1):

print(f"{i}. ${expense:,.2f}")

# Running the main function

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

main()

# Final statement to display user name

print("\nCompleted by, Yashoda Dhital")

**Output:**

