Mockti Test

# Testing Rules

1. Sit at a lab machine that is not your own
2. You may use Visio online, and Visual Studio Code
   1. Visual Studio Code may not have Copilot or any extensions
   2. You may not open existing files in your possession
   3. Code Snippets must be limited to those preinstalled in Visual Studio Code
3. You may not continue to the next portion of the test until the proctor tells you to

# Part 1: Flow Chart Algorithm

Write a flow chart algorithm that does the following:

1. Reads a list of names and their birthdates from a CSV file
2. Converts the read data to a program object
3. Calculates the age of each person in the file
4. Outputs the total number of people and the average age of those people

When complete, print to a PDF file, and submit on Schoology.

# Part 2: Order Entry Program

In your choice of software language, write a piece of software that can do the following:

1. Start and edit orders that include the customer’s name and address
2. Add items, their quantity, and price to the order
3. Calculate the subtotal, sales tax, shipping (Free if the subtotal is over $50, otherwise its $5), and total
4. Show all orders already entered with all information above

Use the following data to test your program:

| **Name** | **Address** | **Items Ordered** | **Quantity** | **Price per Item** | **Subtotal** |
| --- | --- | --- | --- | --- | --- |
| Alice Smith | 123 Maple St, NY | Widget A | 2 | $15.00 | $30.00 |
|  |  | Widget B | 1 | $10.00 | $10.00 |
|  |  | **Total** |  |  | **$40.00** |
| Bob Johnson | 456 Oak Ave, CA | Gadget X | 3 | $20.00 | $60.00 |
|  |  | **Total** |  |  | **$60.00** |
| Carol Lee | 789 Pine Rd, TX | Gizmo Y | 1 | $12.00 | $12.00 |
|  |  | Gizmo Z | 2 | $8.00 | $16.00 |
|  |  | **Total** |  |  | **$28.00** |

When complete, screenshot the output of step 4 and submit on schoology. Copy and paste your code as formatted into a “.txt” file and submit it on Schoology as well.