**Week 1 Module 2.2 Assignment Debugging**

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CSD325-H323 Advanced Python (2255-DD)

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Module 2.2 Assignment: Documenting Debugging

From Intro to Programming with Python Module 4.2 Assignment

Miles To Kilometers Program

Results Document

Original Program

# Juan Macias Vasquez

# Date 04/05/2025

# Module 4.2 Assignment Miles to Kilometers

def Converter(miles):

"""Convert miles to kilometers."""

return miles \* 1.60934 # Multiples miles to get kilometers

def main(): # Main interface for the user

while True:

try:

miles = float(input("Enter the number of miles you drove: ")) # Gets input from user

if miles < 0:

print("Do Not Enter Negative Number. Please enter a valid number.") # Makes sure the number isnt negative

continue

break

except ValueError:

print("Invalid input. Please enter a number.") # Makes sure a number is entered

# Output

kilometers = Converter(miles)

print(f"\nYou entered: {miles} miles")

print(f"That's equivalent to: {kilometers} kilometers")

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

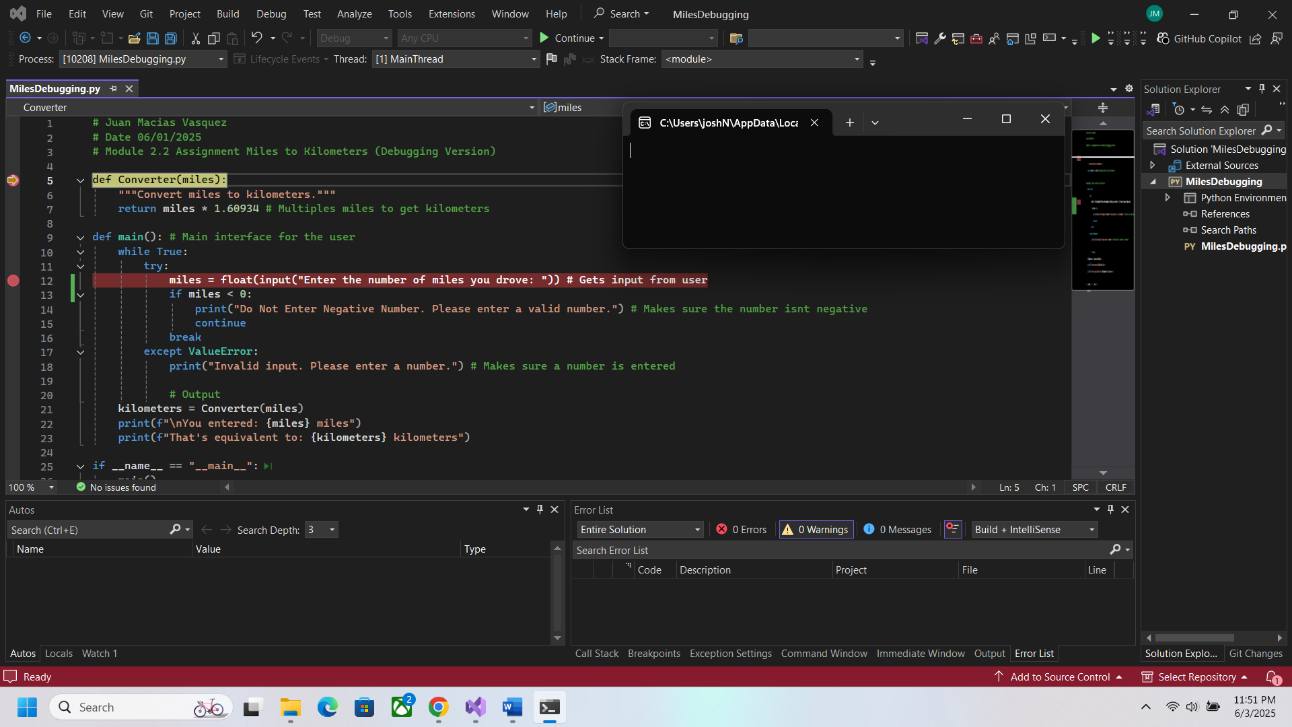
main()

**Debugging version**

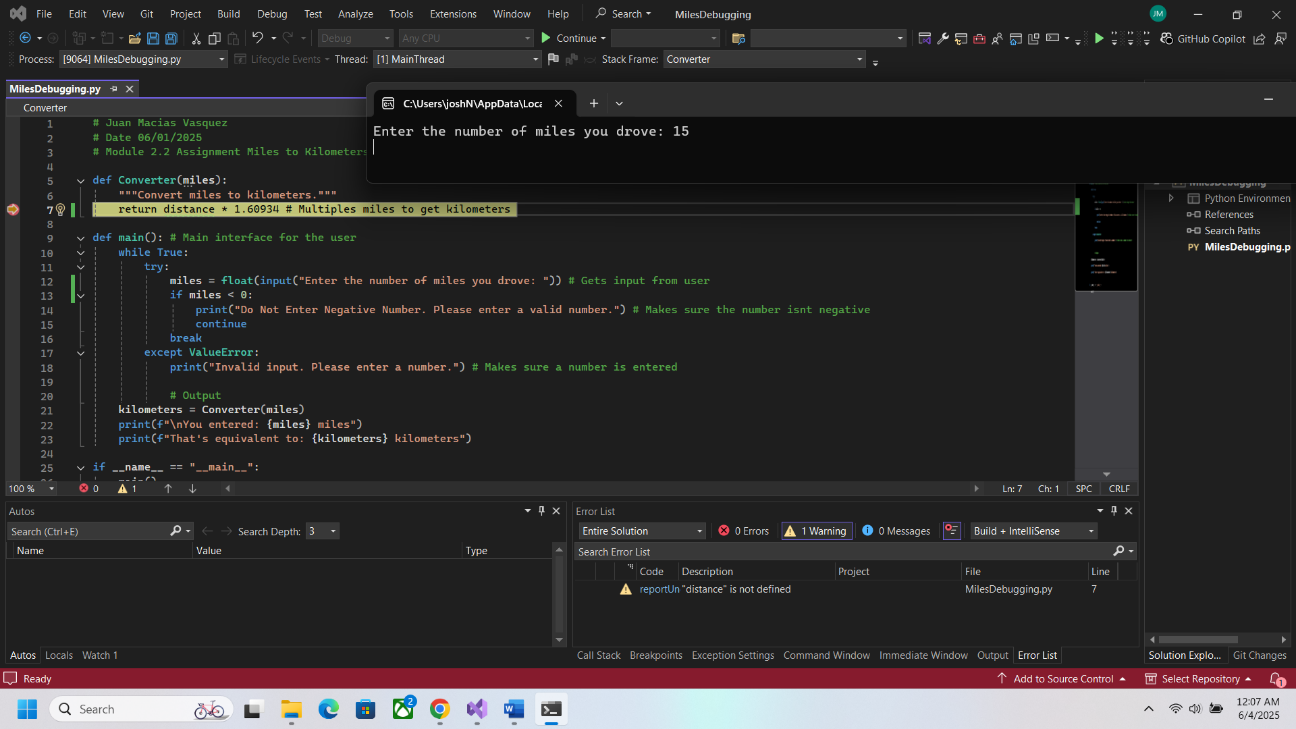
**Set Breakpoint and Debug**

1st Breakpoint at

miles = float(input("Enter the number of miles you drove: ")) # Gets input from user



2nd breakpoint from function

return miles \* 1.60934 # Multiples miles to get kilometers

This is where it converts the miles but this time it runs into issues where it doesn’t know what miles is because the wrong name was used and it became undefined.