Week 1 Module 2.2 Assignment Debugging

Juan Macias Vasquez

Bellevue University

CSD325-H323 Advanced Python (2255-DD)

Jack Lusby

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Module 2.2 Assignment: Documenting Debugging

From Intro to Programming with Python Module 4.2 Assignment

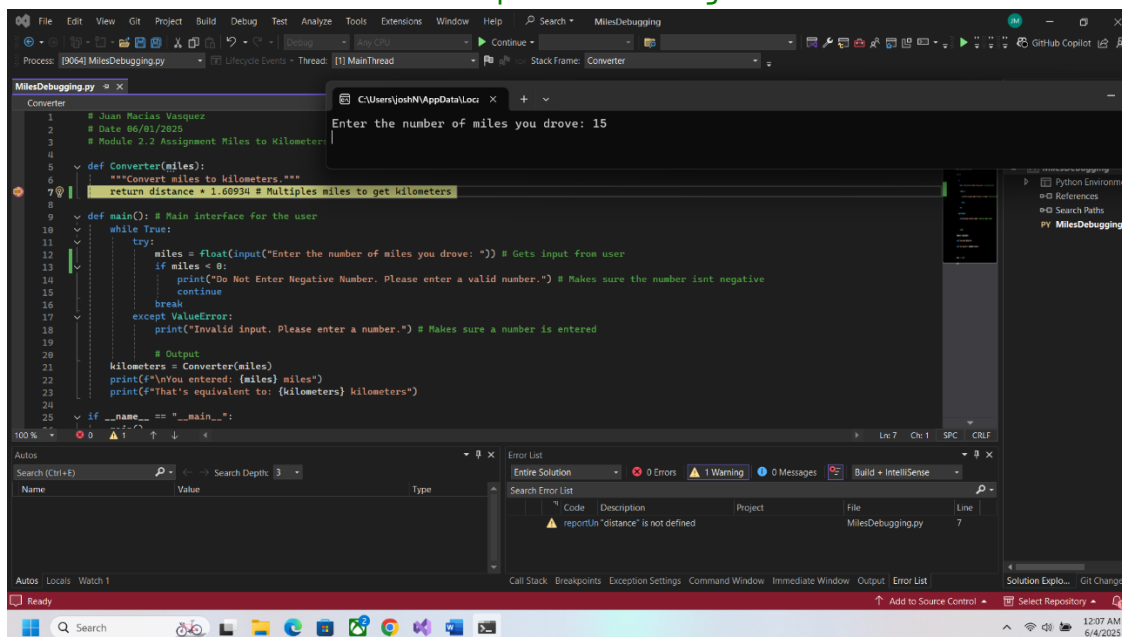Miles To Kilometers Program

Results Document

Original Program

```python
# 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.