Activity 13

Write a program that inputs a text file. The program should print all of the unique words in the file in alphabetical order.

def extract\_unique\_words(file\_path):

    unique\_words = set()

    try:

        with open(file\_path, 'r', encoding='utf-8') as file:

            for line in file:

                words = line.split()

                for word in words:

                    # Remove punctuation and convert to lowercase for uniformity

                    cleaned\_word = word.strip('.,!?()[]{}":;')

                    cleaned\_word = cleaned\_word.lower()

                    unique\_words.add(cleaned\_word)

    except FileNotFoundError:

        print(f"Error: File '{file\_path}' not found.")

    except Exception as e:

        print(f"Error: {e}")

    return sorted(list(unique\_words))

def main():

    file\_path = input("Enter the path to the text file: ")

    unique\_words = extract\_unique\_words(file\_path)

    if unique\_words:

        print("Unique words in alphabetical order:")

        for word in unique\_words:

            print(word)

    else:

        print("No unique words found.")

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

    main()