**Manual of code**

**Lab 4.2**

**Explanation of the Code**

This code removes all punctuation marks from a string entered by the user. Punctuation marks are characters like !, ,, ., ?, etc., that are used in writing to separate sentences and clauses. The program checks each character in the input string and keeps only those characters that are **not** punctuation marks.

**How the Code Works**

**1. Define Punctuation Marks**

A string named punctuation is defined, which contains all the common punctuation marks:



This includes characters like:

* !, ?, . (common sentence endings)
* ,, ;, : (common separators)
* ", ' (quotation marks)
* (, ), [, ], {, } (brackets)
* /, \, <, >, @, #, $, %, ^, &, \*, \_, ~ (other special characters)

**2. Get User Input**

The program prompts the user to enter a string:



For example, the user might enter:

"Hello, world! How are you?"

**3. Remove Punctuation Marks**

The program initializes an empty string called no\_punct to store the result (the string without punctuation). It then iterates over each character in the user's input:



For each character (i), the program checks if it is **not** in the punctuation string:



If the character is **not** a punctuation mark, it is added to the no\_punct string:



**4. Display the Result**

After processing all the characters, the program prints the final string without punctuation:



**Example Walkthrough**

Let’s say the user enters the following string:

"Hello, world! How are you?"

1. The final string without punctuation is:

Hello world How are you

1. The program prints:

String without punctuations: Hello world How are you