**File Handling**

File handling in Python refers to the process of creating, opening, reading, writing, appending, and managing files on the disk.

**File Operations**

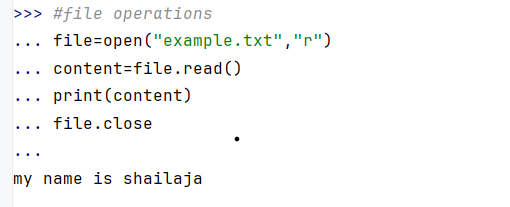
**1.open a file:** To perform any operations on file we need open a file

Syntax:file=open(“filename.txt”,mode)

**2.reading a file:**Used to read the contents in the file**.**

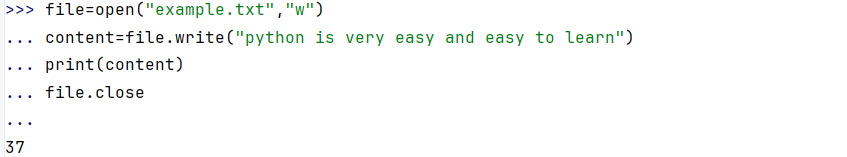
**syntax:** file=open(“filename.txt”,”r”)

example:

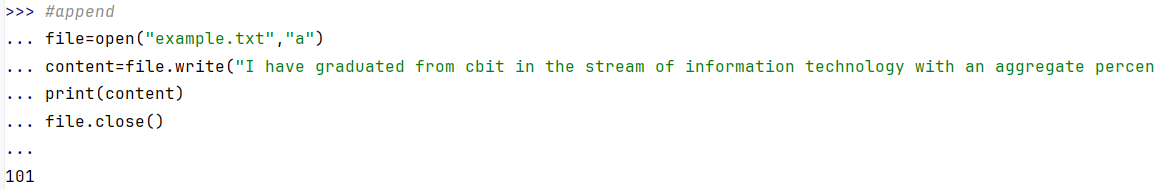


**3.writing to a file:**Write the contents into the file

file=open(“filename.txt”,”w”)

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**4. appending to a file:**It is used to write the content into the file without overwriting the existing file

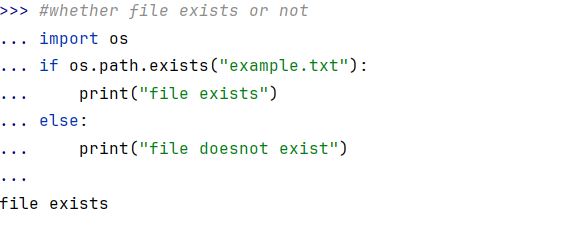
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**5.closing a file:**

After completion of all operations, the file should be properly closed

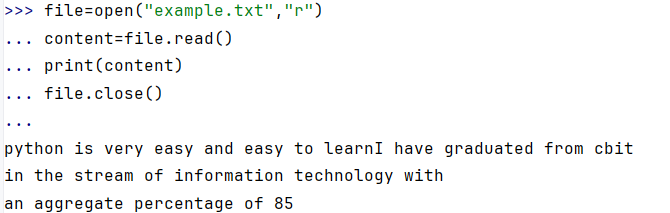
Syntax:file.close()

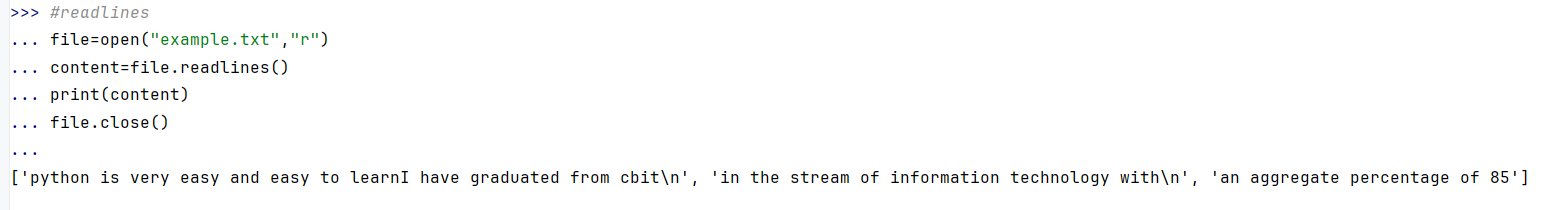
**6. checking whether the file exists or not:**Checking os modules to check whether files exist or not

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**Differnce between read() and readlines()**

**1.read():**Reads the entire file content as a single string

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**2.readlines():**Reads all the lines in the file and returns them as a list of strings.****

**Advantages**

1. **Versality:** We can perform a wide range of operations like creating, modifying, closing, etc.

**2. Flexibility:** It allows you to work with different files like text, binary, and CSV files.

**3. User-Friendly**:It has a user-friendly interface and allows you to work easily.

**4. Cross Platform:** Works across multiple macros, Linux, and windows platforms.

**Disadvantages**

**Error-prone:** File operations are prone to errors such as FileNotFoundError

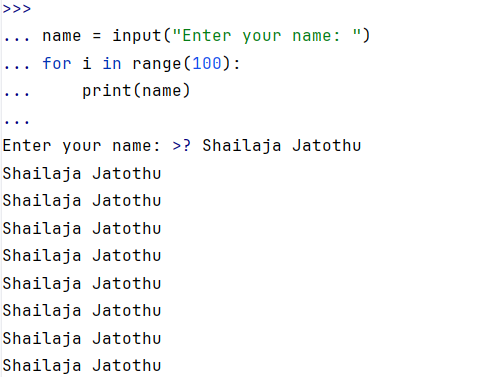
**2. Security Risks:** It poses security risks that may contain sensitive data

**3. Complexity:**Complex when working with large advanced files

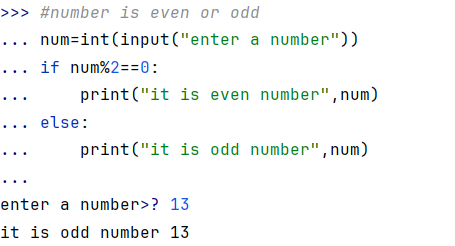
**4. Performance:** Files are slower than other programming languages

**Assignment Questions**

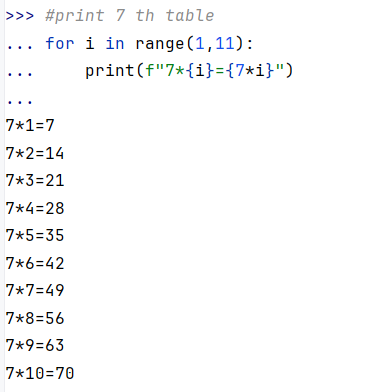
**1.Write a Python program to print your name 100 times**

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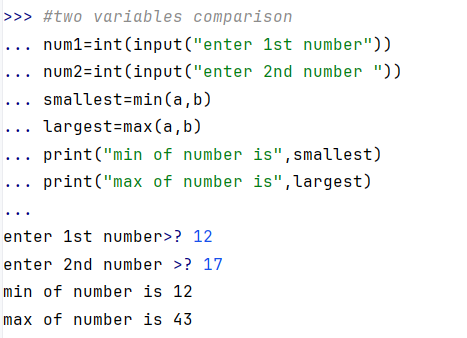
1. **W.A.P to check whether a number is even or odd**

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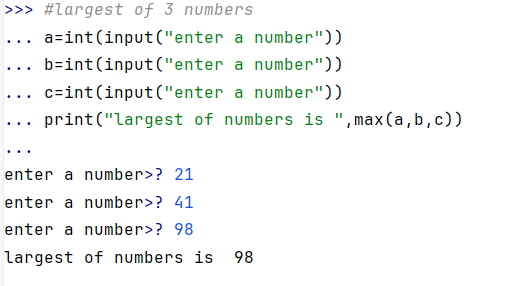
1. **W.A.P to print 7th table**

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1. **W.A.P to compare to variables and print which is maximum and minimum**

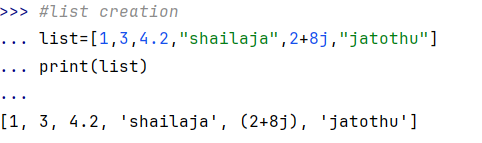
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**5. W.A.P to find the largest of 3 numbers**

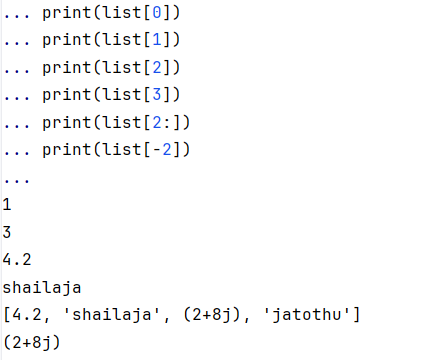
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**2. Assignment**

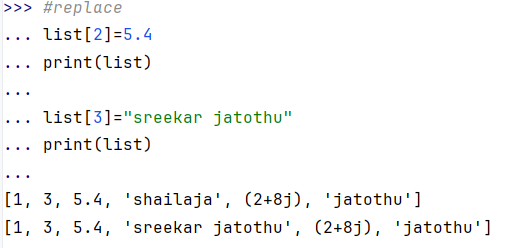
**1. Create a list**

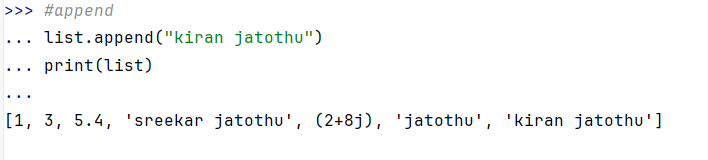
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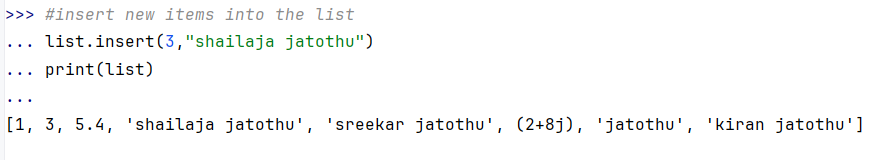
**2.access the elements in the list**

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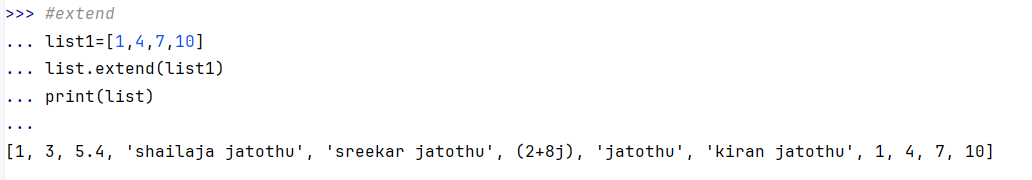
1. **change the list of items by replacing**

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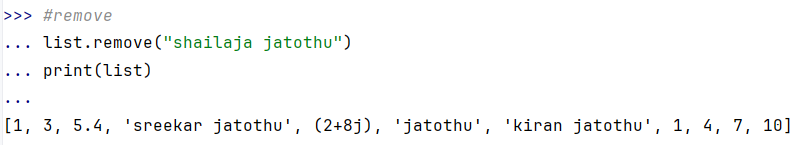
1. **perform append operation**
2. ****
3. **insert new items into the list**

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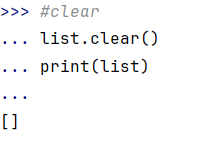
1. **extend items into the list**

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1. **remove the items from the list**

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1. **clear the entire list**

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