

How to read and write files using JES application

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You can also complete other tasks in JES like reading or writing files. You can read data from different file types, including text and CSV files.

How to read a file using JES

To read a file in JES, first open it, then read the contents and save it as a variable for further processing.

If you're reading a text file, you can save each file line individually as an element in an array. If you are reading a CSV file, you can also store the value of each cell separately.

1. Open the JES software on the computer. In the programming window, create a new function:

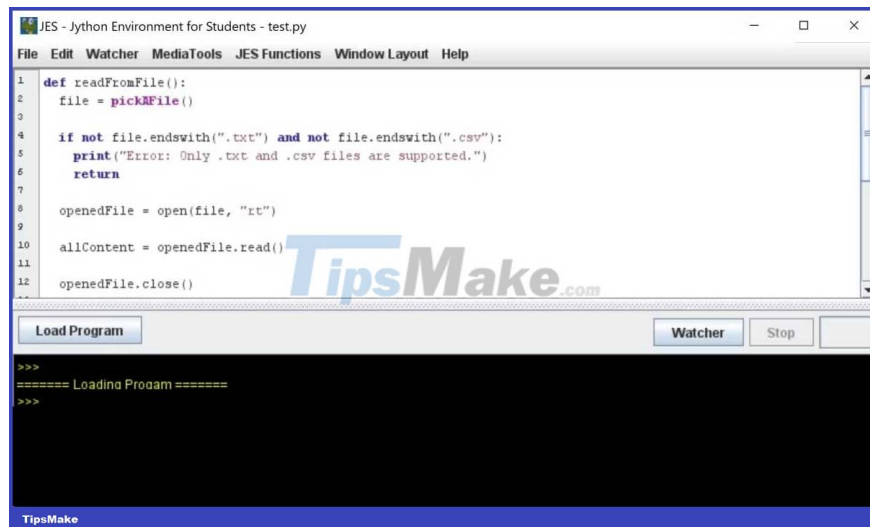
```
def readFromFile():
```

2. Use the pickAFile() function to ask the user to select a file.

```
file = pickAFile()
```

3. File validation to ensure users only select TXT or CSV files:

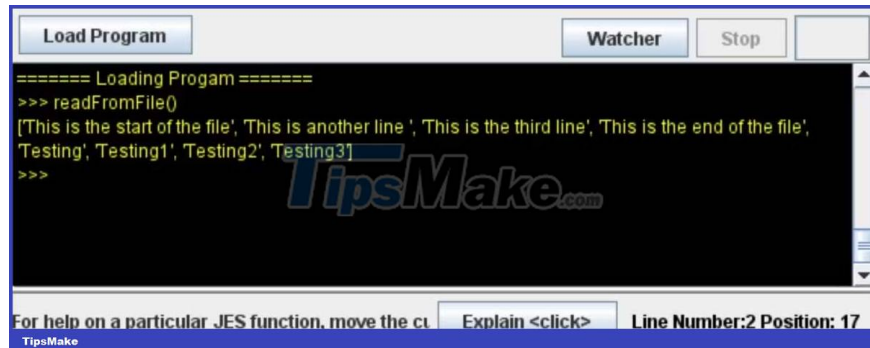
11. On the JES interface, click the **Load Program** button , located between the programming window and the command line:



12. Run the `readFromFile()` function in the command line:

```
readFromFile()
```

13. Using the file prompt, navigate to where you saved the **sample.txt** file . Select the file to open it and see what's printed to the console:



14. Run the `readFromFile()` function again in the command prompt. Select the `numbers.csv` file to see what's printed to the console, with each cell separated and stored in an array:



How to write a file in JES

You can write a text or CSV file using the `write()` function. You can open the file for appending or burning. Additional data will add to existing content, while writing will overwrite any existing content in the file.

Create a new function and use it to write a text and CSV file.

1. Create a new function named `writeToFile()`:

```
def writeToFile():
```

2. Use the `pickAFile()` function to prompt the user to select a file:

```
file = pickAFile()
```

3. Open the file to add data:

```
openedFile = open(file, "at")
```

4. Alternatively, if you want to overwrite all the contents of the file, enter `w` as the second argument:

```
openedFile = open(file, "w")
```

5. Write files. To add multiple lines, use `'n'` to split the content into lines, or reuse the `write()` function:

```
if file.endswith(".txt"): ??openedFile.write("nTesting") ??  
openedFile.write("nTesting\nTesting2") ??openedFile.write("nTesting3")
```

6. To write a CSV file, write all the data for a row using the `write()` function, and separate the values `??`for each cell with a comma:

```
if file.endswith(".csv"): ??openedFile.write("n12,34,56")
```

7. Close the file after writing it:

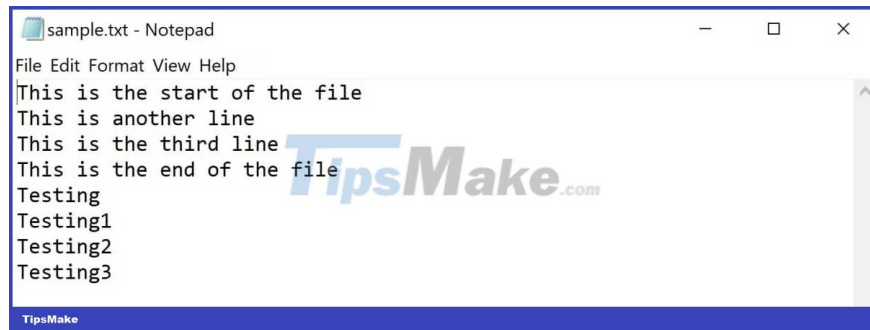
```
openedFile.close() print("Wrote to file successfully")
```

8. Click the Load Program button, located between the programming window and the command line.

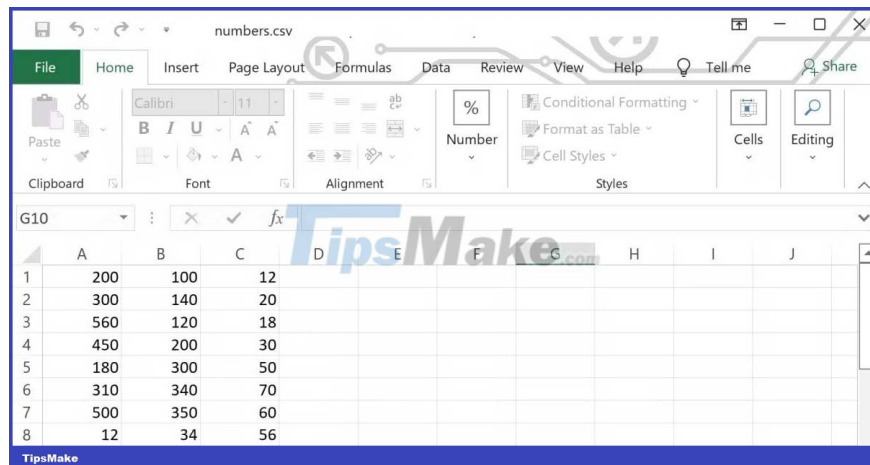
9. Run **the `writeToFile()`** function in the command prompt:

```
writeToFile()
```

10. Using the file prompt, select the file 'sample.txt.' After JES finishes writing the file, open 'sample.txt' to see the new lines added to the end of the file:



11. Run the writeToFile() function again in the command line. Open the file ' **numbers.csv** ' to see the new cell values ??added at the end of the file.



Writing data to a file is an extremely useful function that you can use if you need to save any data inside a program. Above is how to read and write roles into a JES app. Hope the article is useful to you.

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