



Command Line Arguments

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What are command line arguments?



What are command line arguments?

- While running a Python program from command prompt, we can pass inputs to our program. Those inputs are called command line arguments.
- With this feature we can pass different inputs and check our program's working quickly.
- It helps in providing inputs even before the program execution starts through the python run command.

```
python file_name.py input1 input2 input3.....inputn
```

- **sys** module helps in storing these inputs in a list.
- Our list of inputs can be accessed using the **argv** variable.

How to pass them?



How to pass them from command prompt?

- In python run command we can mention our inputs after our file name.
- Each input must be separated by a space.

```
python demo.py 10 20
```

```
python demo.py Hello Arun
```

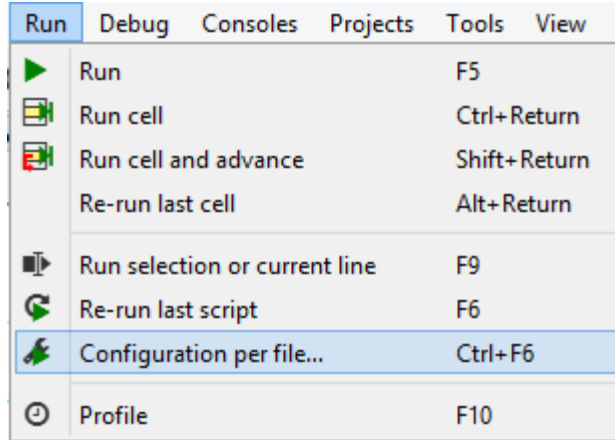
- If your input is made of more than one word lets say first name and last name, then enclose them in quotes.

```
python demo.py "Arun Kumar"
```

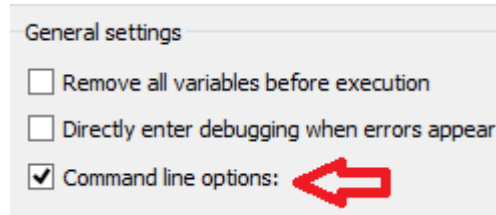
```
python demo.py "Cristiano Ronaldo" Portugal
```

How to pass them in Spyder IDE?

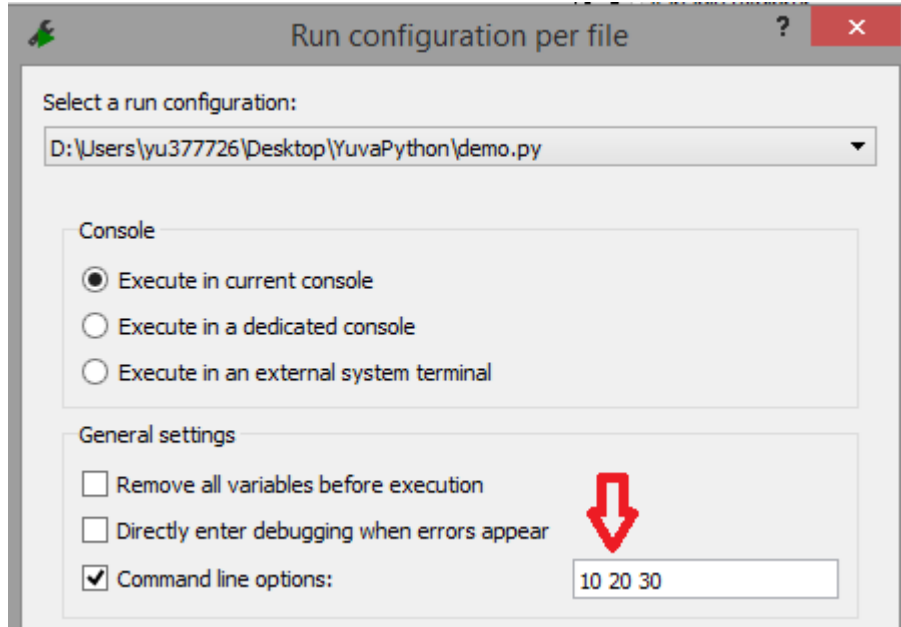
Select Run → Configuration per file..



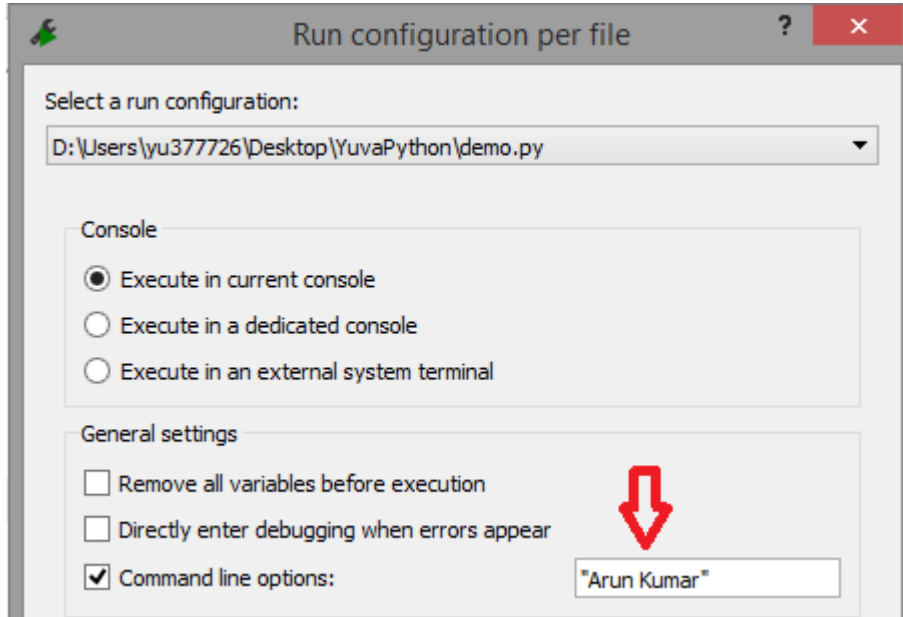
Check Command line options:



How to pass them in Spyder IDE? : Multiple inputs with space



How to pass them in Spyder IDE? : Single input with more than one word



Click **Ok**.

How to access them?



How to access them?

- Import **argv** from **sys** module.
- Inputs are stored in the list starting from index 1.

```
from sys import argv  
print("num1 is ", argv[1])  
print("num2 is ", argv[2])
```

```
> python demo.py 10 20  
  
num1 is 10  
num2 is 20
```

- All the inputs are stored as a string(**str**) in the list.

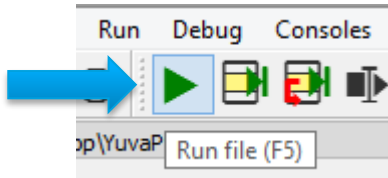
How to access them?

- What will be stored in `argv[0]` then?
- Answer is file name.

```
from sys import argv  
print("File name is ", argv[0])
```

```
> python demo.py 10 20  
File name is demo.py
```

- In Spyder IDE, after passing the command line options, click **Run File** icon.





Thank you