



PYTHON FOR COMPUTATIONAL PROBLEM SOLVING

Input function – `input()`

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PYTHON FOR COMPUTATIONAL PROBLEM SOLVING

Input Function – input()



- This function is used **to read a string from the user.**
- Can also be used to display the message to the user using the **prompt field** and then displays the cursor to the user to take some input from the user.

```
input([prompt] =None, /)
```

Read a string from standard input.

The trailing newline is stripped.

The prompt string, if given, is printed to standard output without a trailing newline before reading input.

If the user hits EOF (*nix: Ctrl-D, Windows: Ctrl-Z+Return), raise EOF Error.

- Type conversion functions must be used if required. – int(), float(), bool(), complex(), etc
- If multiple values are in the input, use the delimiter while splitting using split()

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Type conversion



```
>>> length = input("Enter the length in cm: ")
Enter the length in cm: 10  #10 is entered by the user
>>> type(length)
<class 'str'>
>>> length=int(length)
>>> type(length)
<class 'int'>
```

Think! – Is there any function which automatically converts the value supplied by the user to its specific type?

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Multiple values as input



```
>>> marks = input("Enter maths and science marks: ")
Enter maths and science marks: 95 99
>>> type(marks)
<class 'str'>
>>> marks = marks.split()
>>> type(marks)
<class 'list'>
>>> marks
['95', '99']
```

Think! – Can we use different symbols to separate out the inputs from the user?



THANK YOU

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