PYTHON FOR COMPUTATIONAL PROBLEM SOLVING

Input function – input()

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PCPS Theory Anchor - 2024

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- 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()

```
>>> 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

it's specific type?

```
>>> 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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