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# Python Basic Hands On

Forsk Technologies



## Python Version

- What Python version is installed on your machine?
- Note: This Command will only work on cmd or Command Prompt
  - Command:- `python -V`

## Mathematical Functions

- ▶ Python and Software Engineering Best Practices (P-6)

```
import math

print math.log(16, 2)
print math.cos(0)

# Try printing Math.sqrt(16)
```

- ▶ Python and Software Engineering Best Practices (P-7)

```
Output:
4.0
1.0
```

- ▶ Python and Software Engineering Best Practices (P-8)

## Types

- What you get when you run below commands

```
type(7)
type 7
type(1.25)
type('hello')
len('abcd')
str(23)
int('125')
```

- ▶ Python and Software Engineering Best Practices (P-9)

- ▶ Python and Software Engineering Best Practices (P-10)

## Division and Remainders

- What you get when you run below commands

- ▶ DS specific libraries (P-1)

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```
14/4
14//4
14%4
23//5
23%5
20%5
6//8
6%8
```

## String Delimiters

- What you get when you run below commands

```
"hello"
'Hi!'
```

```
# Figure out how to give Python the string containing the
text
# I'm happy
```

## String Concatenation

- Try this

```
'very' + 'hot'
3 * 'very'
```

## Autocompletion

- This is used to autocomplete any predefined variable name, it helps to reduce typing time for long variable names.
- Alt + / (for IDLE)
- tab (for Spyder)
- You can press Alt+/ several times if more than one identifier starts with the initial sequence of characters you typed

## Print

```
x = 3
y = 5
print 'The sum
of',x,'plus',y,'is',x+y
```

## Escape Codes

Escape code	Meaning
\'	'
\n	newline
\\	\

```
print 'a\nb\n\nc'
```

# User Input in Python

```
# raw_input() is used to take string input  
from user  
name = raw_input("Enter your Name: ")  
  
# input() is used to take numerical, tuple  
or dictionary inputs  
age = input("Enter your Age: ")
```