

TRAINER'S
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PARTICIPANT'S
INTRODUCTION



## **About Me**

Oracle certified Corporate Trainer, Developer, YouTuber[ TechGatha ]

Conducted 70+ training sessions on Java track, Web UI and Android with close to 1000+ participants from 20 corporates with average of 97% success results



Shalini Mittal

#### CERTIFICATIONS

- ) CDAC
- OCJP
- AA certified RPA Trainer

#### TRAINING

 Expert facilitator and corporate trainer with 10+ years of experience in training, content development, facilitating organizational development workshops, development and consultation.

#### **EXPERIENCE**

 10+ years of total experience as Corporate Trainer for Java track, Web UI, Android Python, MEAN STACK, ANGULAR, MICROSERVICES, DatBase

#### ROLE

- Technical Trainer for various IT companies like Liberty Mutual, DBS, JPMC, LNT, Tech Mahindra, Accenture, CapGemini, BNP Paribas etc.
- Jury member for various state level Project Competitions.
- > Guest Speaker at various engineering colleges
- Consultant

Hosted many webinars for android app development and invited as Guest Speaker at various engineering and BSC colleges for sharing insights on future of Android and Career Aspects.

## WHAT WE WILL COVER TODAY?



INTRODUCTION

WHAT IS PYTHON

PYTHON FEATURES

PYTHON SETUP

PYTHON IDE

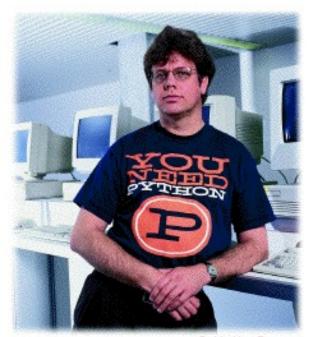
A SIMPLE PROGRAM IN PYTHON



## PYTHON HISTORY

#### • BRIEF HISTORY OF PYTHON:

- INVENTED BY GUIDO VAN ROSSUM (CWI, AMSTERDAM, 1991)
- NAMED AFTER "MONTY PYTHON'S FLYING CIRCUS " 1969-1974
- Now owned by the Python Software Foundation (PSF)
- DERIVED FROM ABC, MODULA-3, LISP AND "C" LANGUAGES



Guido Van Rossum



## PYTHON USERS

- Google
- ILM
- Astra Zeneca
- SMHI
- YouTube
- Instagram
- Spotify
- Amazon
- SurveyMonkey
- Facebook



### SO PYTHON FEATURES ARE...?

- Scripting language
- Interpreted ,Interactive
- Elegant Syntax and dynamic typing
- Rapid Application Development
- Object Oriented
- Portable
- Powerful
- Cross platform
- Easy to Learn and Use





### HOW TO START WITH PYTHON...

- Python install
  - https://www.python.org/downloads/
- Set the PATH environment variable
  - On Power Shell
    - [Environment]::SetEnvironment Variable("Path","\$env:Path;C:\Python34","User")
    - Then restart powershell. If needed restart the PC
  - Or directly go to Control Panel\All Control Panel Items\System
    - Set the PATH environment variable



### HEY YOU NEED AN IDE

- Install PyCharm IDE
  - https://www.jetbrains.com/pycharm/download/#section=windows/
- Install PyCharm
- Python interpreter => different for different OS
- Python code [python language] and the OS



## FEW THINGS TO KNOW BEFORE WE BEGIN $\odot$

 Python programming can be done using a shell like Power Shell or command Prompt

```
C:\windows\system32\cmd.exe - python

D:\python\python_wksp>python

Python 3.4.3 (v3.4.3:9b73f1c3e601, Feb 24 2015, 22:43:06) [MSC v.1600 32 bit (In tel)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> print("hello world")

hello world
>>>
```

- The various IDE's are also available for Python Programming
  - Eclipse
  - PyCharm
  - Boa Constructot
  - PythonWin
  - IDLE
  - etc

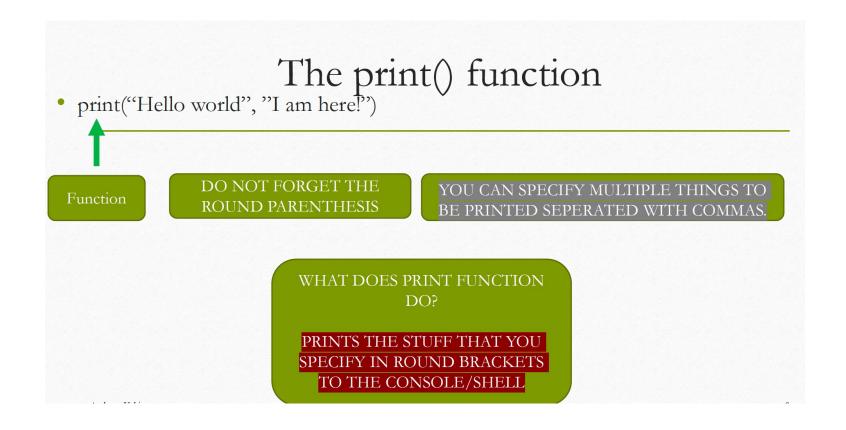


#### A SIMPLE HELLO WORLD

- Writing a program in python is as simple as this:
  - print ("hello World") #python 3
- Either you type this on a shell
- Or code in a source file using Notepad or any IDE
- Save your file with the extension .py
  - Eg: Hello.py
- On Command prompt: type
  - python Hello.py



### PRINT() FUNCTION



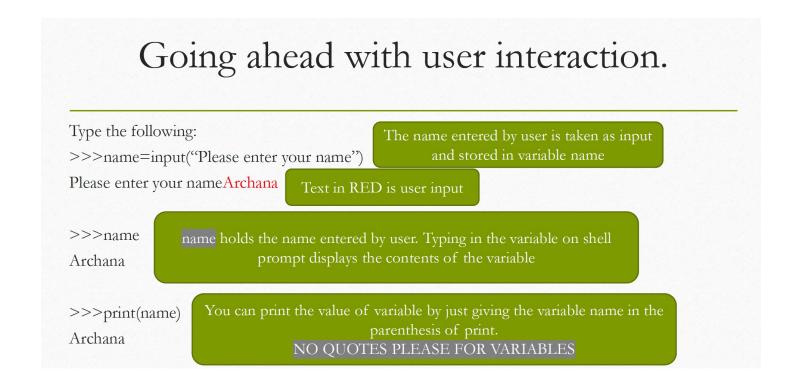


#### PYTHON CALCULATOR

- 17 / 3 #classic division returns float
- 17 // 3.0 # explicit floor division discards the fractional part
- 17 % 3 # the % operator returns the remainder of the division
- 5 \* 3 + 2 # result \* divisor + remainder
- 5 \*\* 2 # 5 squared

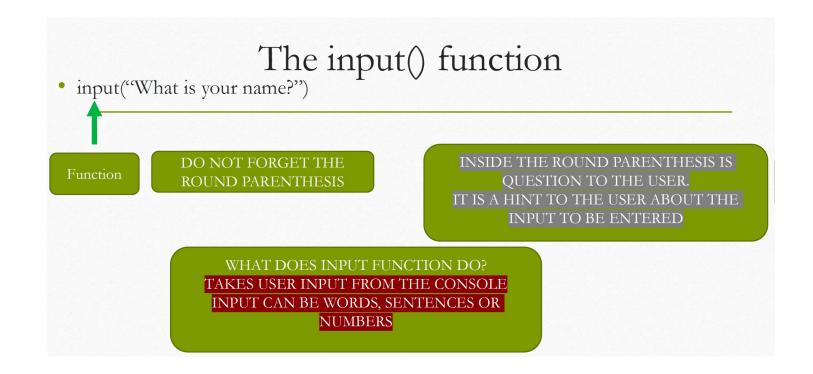


#### LETS TAKE THE INPUT





## INPUT()





### PROBLEM STATEMENT

- Write a program to take user's name as input and print as follows:
   Welcome <user entererd name>
- Example Output:

>>> Please Enter your name Shalini

Welcome Shalini ←

**Desired Ouptut** 



## PROBLEM STATEMENT SOLUTION

name = input("Enter your name")
print("Welcome", name)



#### EXERCISE

- Print the following on console:
  - 1. Python is easy
  - 2. You can do it
  - 3. Let's do it
  - 4. She said, "Let's dance"
- Take age as input and print the following line on the console.
- You are <age entered by user> years old.



### EXERCISE SOLUTION

- Print the following on console:
  - 1. Python is easy
  - 2. You can do it
  - 3. Let's do it
  - 4. She said, "Let's dance"

print('1. Python is easy')

print('2. You can do it')

print("3. Let's do it")

print('4. She said, "Let\'s dance"')

- Take age as input and print the following line on the console.
- You are <age entered by user> years old. age = input('enter your age') print('You are',age,'years old')



#### ASSIGNMENT

• Print the following output using print function

```
~^^^~
|[#]|
~^^^^-
|[#]| |[#]|
~^^^^+-----+
| === |
|[#] | | [#] |
| | | | |
+----+
```



# ANY QUESTION ?







THANK YOU!