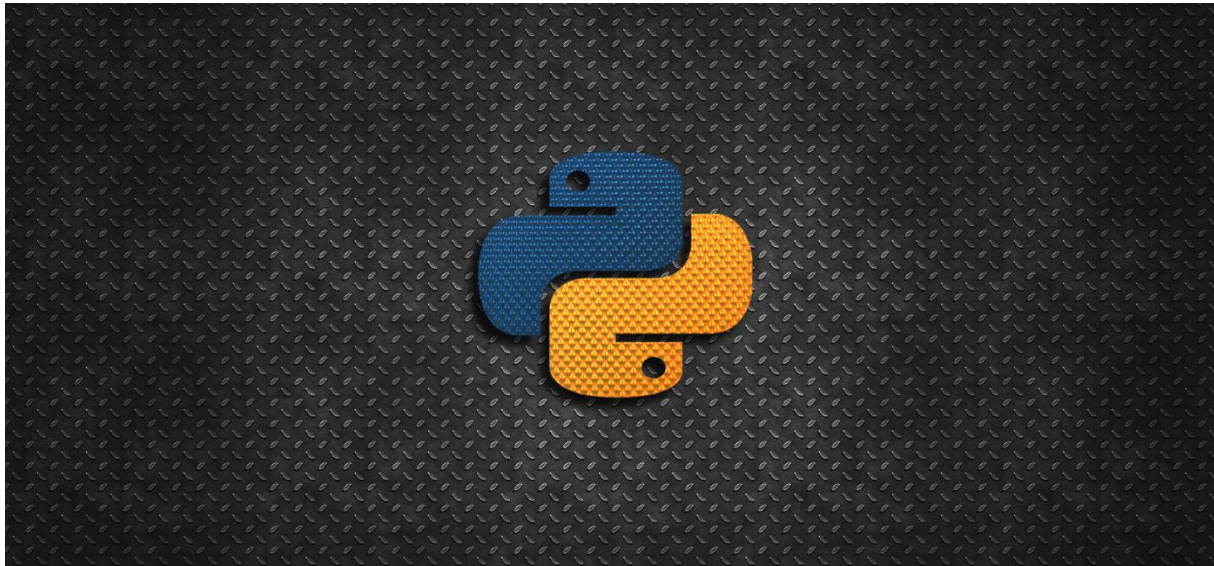


# The Python Catcher



## Course Details:

This course offers an insight knowledge of the world's most in demand and popular language. The application of the Python Language in the IT Industry is accepted industry-wide. The ease of learning this knowledge and the community support it has is what adds to the beauty of the knowledge.

At Technol we love this knowledge and love teaching it to the students.

We cover the following topics under **The Python Catcher** module:

### 1. Introduction to Programming and Python

- Concept of programming and various languages
- Scope of programming
- Introduction to Python
- Why Python ?
- Applications of python

## **2. Basic concepts**

- Print statements and formatting strings
- Placeholders
- Variables in python
- Typecasting

## **3. Conditional statements**

- The if statement
- the elif statement
- Logical operations

## **4. Loops**

- For loop
- Various implementation of for loops
- While Loop

## **5. Exception Handling**

- Try .....Except
- The various types of Exceptions
- User defined Exceptions

## **6. Functions**

- Function definition
- Function calls
- User defined functions and return types

## **7. Basic OOPs Concepts**

- Classes in python
- User defined classes
- Object usage and method calls

- Inheritance in Python

## **8. Python Libraries**

- The pip
- Installing libraries from pip
- Updating pip
- Virtual Environment
- Working with different interpreters

## **9. Git and GitHub**

- Working with Git
- Creating and uploading repositories

## **10. GUI Programming**

- Introduction to Tkinter module
- Layout Management and Widgets
- Call Back functions

## **11. Flask Framework**

- Introduction to Flask Framework
- Building a basic website
- The Login Signup
- Other functionalities
- Building the Complete Website

## **12. Some Other Topics**

- API, JSON handling
- Requests Library
- Web Scraping
- Advanced Python Libraries

### **13. Projects**

- Rock, Paper and Scissors
- Image and Video Encryption
- Twitter Bot
- Web Scrapers
- Weather App
- Other Advanced Projects

**\*24x7 query solving support through whatsapp groups\***

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