

# Summer training & project Internship program 2019



## & Advance Python

**Summer training & Project Internship  
program Bundled with Microsoft  
International Certification  
Exam 98-381**

# Python

## Opp's

Object Oriented Programming  
What is OOP  
Basic class  
Constructor  
inheritance  
Override method  
abstract class  
operator overloading  
method overloading

## Python

Installing python  
Variables  
Strings  
Numbers  
Get Variable Value  
How to Program  
Math Operators  
Built-in Functions  
Simple Sum

## Lists

List Indexing and Slicing  
List Slicing Examples

Indexing  
Slicing  
More on Indexing  
More on Slicing  
List Indexing  
List Methods  
Quiz 1: Indexing and Slicing  
Append to List  
Remove from List  
Append from List to List  
Concatenate List Items  
Tuples  
Dictionaries  
Create Dictionary  
More Operations with Dictionaries  
User Input  
Conditionals  
Conditionals with Multiple Conditions  
Conditionals

## Custom Functions

Custom Functions: Example  
Create Function  
Exponential Function  
Custom Functions: Return vs Print  
[Custom Functions with Conditionals](#)  
Calculate Length  
Solution  
Custom Functions with Multiple Parameters  
Sum up Function  
Function Output  
Custom Functions with Default Parameters  
Function with Default Parameters  
Weather Function  
Solution  
Functions and if-else (Practice)  
Solution  
Functions and if-elif-else (Practice)  
Solution  
Opening Files in Python  
Working with File Paths  
Processing File Content  
Reading Files  
Solution  
For Loops  
For Loops (Practice)  
Solution  
For Loops

For Loop with Conditional Block (Practice)  
Solution  
File Content Length (Practice)  
Solution  
Functions, Conditionals, and Loops (Practice)  
Solution  
Writing Text to a File  
Appending Text to a File  
Reading and Appending Text to a File  
Write Multiple Lines in a Text File (Practice)  
Tip: Writing Multiple Lines in a Text File

## Advance features

Section Introduction  
Setting Up  
While Loop  
While Loop with Password Checker  
String Formatting  
Modules, Libraries, and Packages  
Installing Python Libraries  
Dates and Times  
Datetime Formatting Codes  
Looping Multiple Sequences  
The "with" Context Manager  
Files, Loops, Functions, and Conditionals  
Solution  
Merging Text Files  
Tips: Merging Text Files

## Fixing errors

### [Syntax Errors](#)

Runtime Errors  
Errors  
How to Fix Difficult Errors  
Good Programming Questions  
Error Handling

## Introduction to REST APIs

How can we make our own API? What is Flask?  
Python cls() and argument unpacking  
Creating the User model for our application  
Started developing the User model  
Creating the login and register  
Finding blogs by a specific author  
Allowing creation of blogs and posts  
Creating the static resources and templates

## Using supporting web technologies for developing web app using python

HTML5/CSS  
Java Script  
Jquery  
Installing GIT

## Connecting database with Python

Connecting and Inserting Data to SQLite via Python  
Selecting, Inserting, Deleting, and Updating SQLite Records  
Querying from SQLite

## Working with Django

Install Django  
Create A New Project  
Run the Web Server  
Migrate and Admin Area  
StartApp  
Django Views  
Template Files  
URLs  
Creating Links  
Extends Base File  
Block Title  
Create a Navbar  
Using Python on a Page  
Using External Python Programs  
Static Image File  
More Static Images on About Page

## Intro to Numpy

Installing OpenCV  
Convert Images to Numpy Arrays  
Indexing, Slicing, and Iterating Numpy Arrays  
Stacking and Splitting Numpy Arrays

## Project

## Plus One module on Cyber and mobile security



Bundled Free online Preparation on company specific test like TCS, Infy, Tech Mahindra, Cognizant, Capgemini, Amazon etc.



Training



Assessment



Project work



Post Training support



Online Aptitude prep



Certification

### Some sample projects

Creating a news blog in python

Using bootstrap to create a web store

Amazon/e-commerce portal-product-price-tracker-using-python

Online Image sharing application

Image processing :-Face/object recognition using python

[www.atsls.com](http://www.atsls.com) | Program Details

Training Duration :- 50-60hrs ( offline plus project support online)

Project :- Included in the program

Fees Rs :-5900 + GST



For Online registration please visit [payment.atsls.com](http://payment.atsls.com)



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