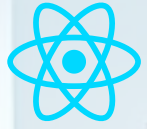




CJC

Complete Java Classes
-By Kunal Sir.



React



django



mongoDB



Hedera



python

Pandas



FULL STACK PYTHON SYLLABUS



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Mr. Kunal Sonu, the Director of Complete Java Classes has Masters degree in Computer Application. He has 13+ years of experience as a certified trainer in various technologies such as Java/J2EE, Python & Cloud. We provide this industry level knowledge to our valuable candidates which is helpful for candidates to getting placed in the IT industry. Complete java classes by kunal sir is IT carrier building platform for students and job seekers. We have a team of highly skilled and Professional trainers so we can provide a better assistance of our students.



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CORE PYTHON

- Fundamental Concepts
- Data Structures
- OOP's concept
- File/Exception Handling
- Lambda/Comprehension
- SQL & MySQL



1

PDBC, SQLALCHEMY & DJANGO

- SQLAlchemy ORM Toolkit
- Django MVT
- Django Request Response
- Authentication & Authorization

django

2

SQLAlchemy



WEB DESIGN

- HTML & CSS
- Java Script
- React

3

- GIT
- API
- API TESTING
- API SECURITY



4



- APTITUDE
- SOFTSKILLS

5



6

- RESUME BUILDING
- MOCK SESSION
- INTERVIEW PREPARATION



GET YOUR DREAM JOB



CORE PYTHON

1] AN INTRODUCTION TO PYTHON:-

What is Python and history of Python?

Features of Python.

Installation and Working with Python.

Understanding Python variables.

Python basic Operators.

Python Identifiers, Keywords and Indentation.

Understanding python blocks.

Command line arguments.

Getting User Input.

Python Data Types.

What are variables?

Python Core objects and Functions.

2]PROGRAM FLOW CONTROL :-

Conditional blocks using if, else and else if.

For loops in python.

For loop using ranges, string, list and dictionaries.

Use of while loops in python.

Loop manipulation using pass, continue, break and else.

Programming using Python conditional and loops block

3] Logic Building :-

Condition Based Problems.

Looping Related Problems.

Numeric Logical Problems.

String Logical Problems.

Sorting Problems.

Design Patterns.

4]List, Ranges, Dictionaries, Tuples and Sets in Python:

Introduction.

Lists in Python

Understanding Iterators

Generators ,Comprehensions and Lambda Expressions

Generators and Yield

Next and Ranges

Understanding and using Ranges

Python Dictionaries

Dictionary manipulation.

Ordered Sets with tuples

Sets

Python Sets Examples

Performance Assessment - 1



ADVANCE PYTHON

5]Object Oriented Programming in Python:-

- OOPs Concepts.
- Concept of class, object and instances.
- Constructor, class attributes and destructors.
- Accessing attributes, Built-In Class Attributes.
- Inheritance
- Polymorphism (overriding and overloading).
- Achieving Abstraction
- Encapsulation
- Mini Project - 1
- Performance Assessment - 2

6]Exception Handling in Python:-

- Exception Handling Introduction.
- Avoiding code break using exception handling.
- Handling various exceptions using try....except...else.
- Try-finally clause.
- Try-except-finally with return keyword.
- Argument of an Exception and create self-exception class.
- Exception Classes Hierarchy
- Raising an exceptions
- Custom (User-Defined) Exceptions.

7] File Input and Output in Python:-

- Reading and writing text files.
- Reading config files in python.
- Writing log files in python.
- Understanding built-in functions.
- Writing Binary Files Manually.
- Using Pickle to Write Binary Files.
- Manipulating file pointer using seek

8]Decorators, Iterators and Comprehensions

- Iterables
- Generators
- Yielding from the generators
- Inner Functions
- Decorators
- Comprehensions - List, Set & Dict.

9]Multithreading in Python Programs:

- What is multithreading?
- Single v/s Multithreaded Apps
- Starting a New Thread.
- Forking threads.
- The Threading Module.
- Class level & Object level Locks
- Synchronizing Threads.

Performance Assessment - 3



PYTHON

10]Structured Query Language:-

MYSQL Introduction

Data Types

DDL, DML, TCL

Constraints

DISTINCT Clause

WHERE Clause

MYSQL Conditions (AND, OR, BOOLEAN, LIKE, IN)

MYSQL Functions (MIN, MAX, AVG, SUM, COUNT)

ORDER BY Clause

GROUP BY Clause

Relationships in SQL

Joins in SQL

Mini Project - 2

11]Python Database Connectivity (PDBC)

SQL Database connection using python.

Install the MySQL dB and other Packages

DML and DDL Operations with Databases.

Performing Transactions.

Handling Database Errors.

Disconnecting Database.

CRUD Operation Project using PDBC.

Mini Project - 3

12] ORM Tool

SQLAlchemy - Object Relational Mapper .

ORM Introduction.

SQLAlchemy Overview.

SQLAlchemy over PDBC.

Advantages of SQLAlchemy.

Classical Way of Mapping

Declarative Way of Mapping

DML and DDL Operations with Database.

Queries in SQLAlchemy.

Applying Filters

Mini Project - 4

PERFORMANCE ASSESSMENT - 4

13] FRONTEND

HTML5:-

Introduction

Basic Formatting Tags

Grouping Using Div Span

Lists

Images

Hyperlink

Table

Iframe

Form

Headers

Miscellaneous

CSS2:-

Introduction

Syntax

Selectors

Color Background Cursor

Text Fonts

Lists Tables

Box Model

Display Positioning

Floats

14]JavaScript:-

Introduction

JS in HTML

HTML DOM (Document Object Model)

JS Console

JS Debugging

JS var & Arrays

JS Objects & Functions

JS dialog boxes

JS JSON

HTML Attributes

Advance JavaScript:-

Internal Working if JS

Scope Chain & Lexical Scoping in JavaScript

Function & Variable Hoisting in JavaScript

JS Object Constructors

JS Object Prototypes

JS Object Accessors

JS Data Types

Closure in JavaScript

localStorage and sessionStorage in JS

Synchronous v/s Asynchronous

Programming in JS

Event Loop in JS



Mini Project - 5

PERFORMANCE ASSESSMENT - 5

15] Frontend Framework

React JS:-

- React JS Introduction
- Advantages of scripting languages
- Features, Advantages & Limitations of React JS
- Setting up Environment
- Module Import - Export
- ES6/ES7/ES8
- JSX in Depth
- Babel and webpack in React JS
- Components in React JS
- Props in React JS
- Fragments in React JS
- State in React JS
- React Events
- Extracting Components
- React Conditional Rendering
- React SAAS
- Mounting, Updating & Unmounting
- React Component API
- Hooks in React JS
- HOC in React JS
- Context in React JS
- Form in React JS
- React Router

Mini Project - 6

PERFORMANCE ASSESSMENT - 6

16] BACKEND FRAMEWORK

DJANGO FRAMEWORK:-

- Basic of Django Framework & its uses.
- Installation and setting up Django.
- Django with PyCharm CE.
- Virtual Environments.
- Templates in Django & Template Inheritance
- Context in Django
- Static Files in Django.
- Syntax and URL.
- Routing in Django.
- Request/Response Architecture in Django.
- Models
- Relationships in Models
- Handling various Databases in Django

Django-ORM

Queries of Django-ORM

Function-based Views.

Class-based Views.

Forms - HTML, Model & Django Forms.

Crispy Forms

CRUD Operations using Model Forms

Mini Project - 7

Form Validation

Custom user models.

Cookies & Session in Django.

User Authentication(Login, Logout, Sign Up)

Mini Project - 8

Performance Assessment - 7

17] API & API Framework

API(Application Programming Interfaces):-

Introduction

Serialization & Deserialization

Python JSON Module

API

Web API / Web Services

REST & RESTful API

Basics of SOAP API, REST API

Django REST Framework:-

Introduction & Installation

Requests

Response

API using api_view decorator and APIView

class Serializer

ModelSerializer

CRUD using DRF

API using GenericAPIView and mixins

ViewSets

Routers

Authentication and Permissions

Throttling

Pagination

Testing API using Postman

Mini Project - 9

24. Soft skills

Setting the tone
 Basics of language
 Sentence Construction
 Parts of speech
 Tenses
 Listening skills
 Speaking activity
 Phrasal verbs
 Idioms and Smart English
 Modal Auxiliaries
 Conversational techniques
 Introduction of Be Employable
 Competency Matrix and expectation setting
 Effective Communication
 Presentation skills
 Business Communication
 leadership
 Group Discussion
 Interview Skills

25. Quantitative Aptitude

1. Number System:
2. HCF and LCM:
3. Percentage:
4. Average:
5. Ratio and Proportion:
6. Ages:
7. Partnership:
8. Simple and compound interest:
9. Time, Speed, and Distance:
10. Time and Work:
11. Permutations and Combinations:
12. Probability:
13. Mixtures and Allegations:
14. Profit and Loss:

Mock Sessions



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Nice environment. ★★★★★

Chandramani Katkamble

Class environment is very nice...all staff is cooperative and Kunal sir helped to build confidence in java proگرامing although i am from non tech background also the practical guidance is very good specially Mr.Nandkishor sir guides personally every student.

Best Institute ★★★★★

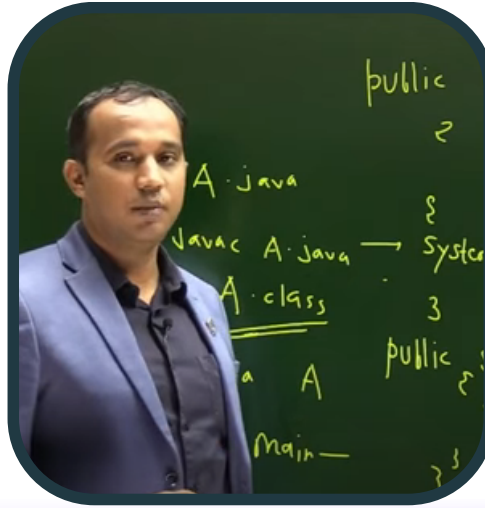
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