



ASSOCIATE WITH



SYLLABUS

DURATION – 3 . 5 MONTHS

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□ Core Python

❖ SYLLABUS -:

- ❖ Introduction to Python
 - ❖ List, Ranges & Tuples in Python
 - ❖ Python Dictionaries and Sets
 - ❖ Input and Output in Python
 - ❖ Python built in function
 - ❖ Python Object Oriented
 - ❖ Python Exceptions Handling
-
- ❖ Python Regular Expressions
 - ❖ Python Multithreaded Programming
 - ❖ Using Databases in Python
 - ❖ Python For Data Analysis
 - ❖ Django Web Framework in Python



❖ Introduction -:

- ✓ Lists in Python
- ✓ More About Lists
- ✓ Understanding Iterators
- ✓ Generators , Comprehensions and Lambda Expressions
- ✓ Introduction
- ✓ Generators and Yield
- ✓ Next and Ranges
- ✓ Understanding and using Ranges
- ✓ More About Ranges
- ✓ Ordered Sets with tuples



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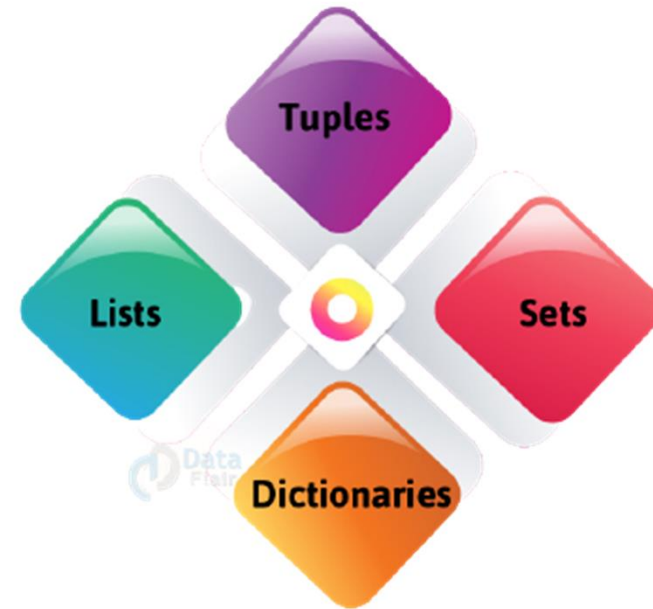


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❖ Python Dictionaries and Sets -:

- ✓ Introduction to the section
- ✓ Python Dictionaries
- ✓ More on Dictionaries
- ✓ Sets
- ✓ Python Sets Examples

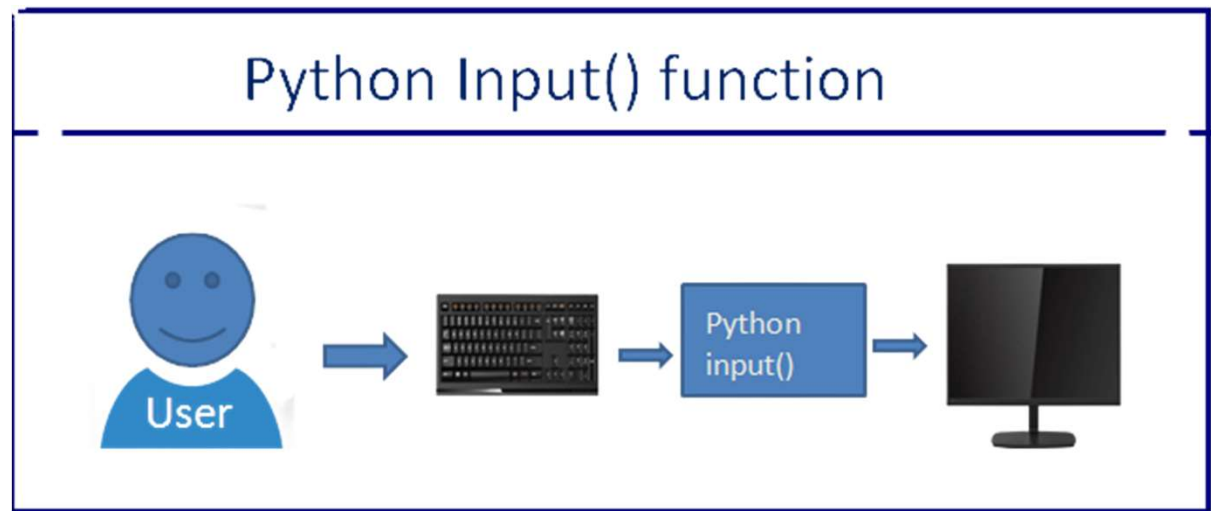


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❖ Input and Output in Python -:

- ✓ Reading and writing text files
- ✓ writing Text Files
- ✓ Appending to Files and Challenge
- ✓ Writing Binary Files Manually
- ✓ Using Pickle to Write Binary Files



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❖ **built in function -:**

- ✓ Python user defined functions
- ✓ Python packages functions
- ✓ Defining and calling Function
- ✓ The anonymous Functions
- ✓ Loops and statement in Python
- ✓ Python Modules & Packages



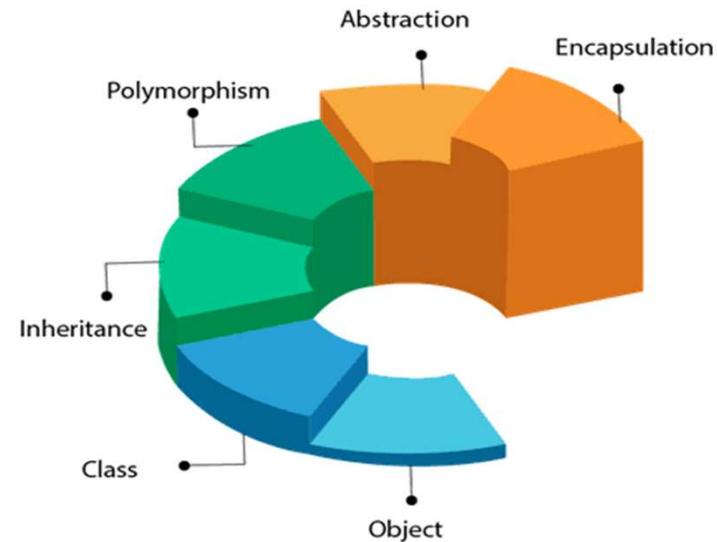
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❖ Python Object Oriented -:

- ✓ Overview of OOP
- ✓ Creating Classes and Objects
- ✓ Accessing attributes
- ✓ Built-In Class Attributes
- ✓ Destroying Objects

OOPs (Object-Oriented Programming System)

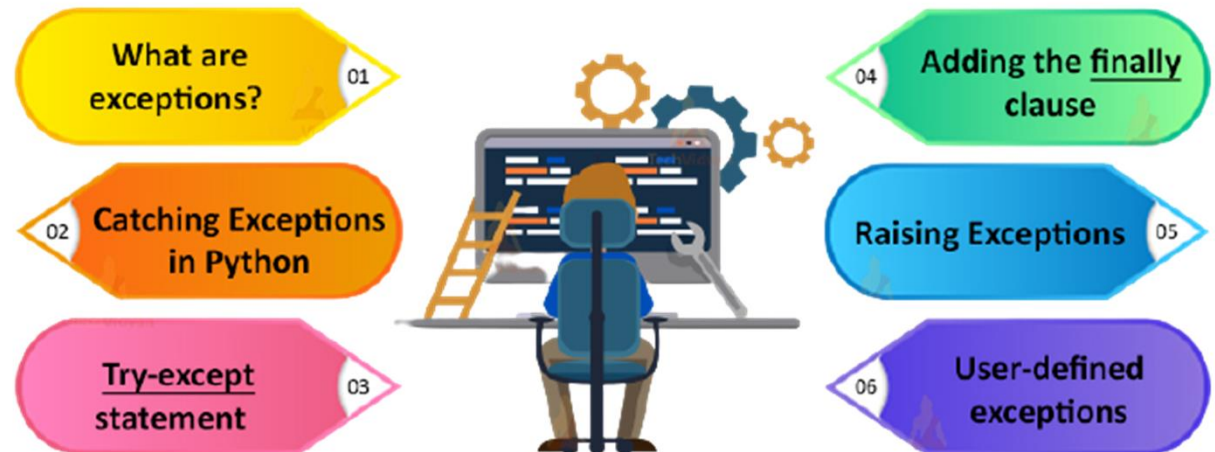


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❖ Exceptions Handling -:

- ✓ What is Exception?
- ✓ Handling an exception
- ✓ try....except...else
- ✓ try-finally clause
- ✓ Argument of an Exception
- ✓ Python Standard Exceptions
- ✓ Raising an exceptions
- ✓ User-Defined Exceptions

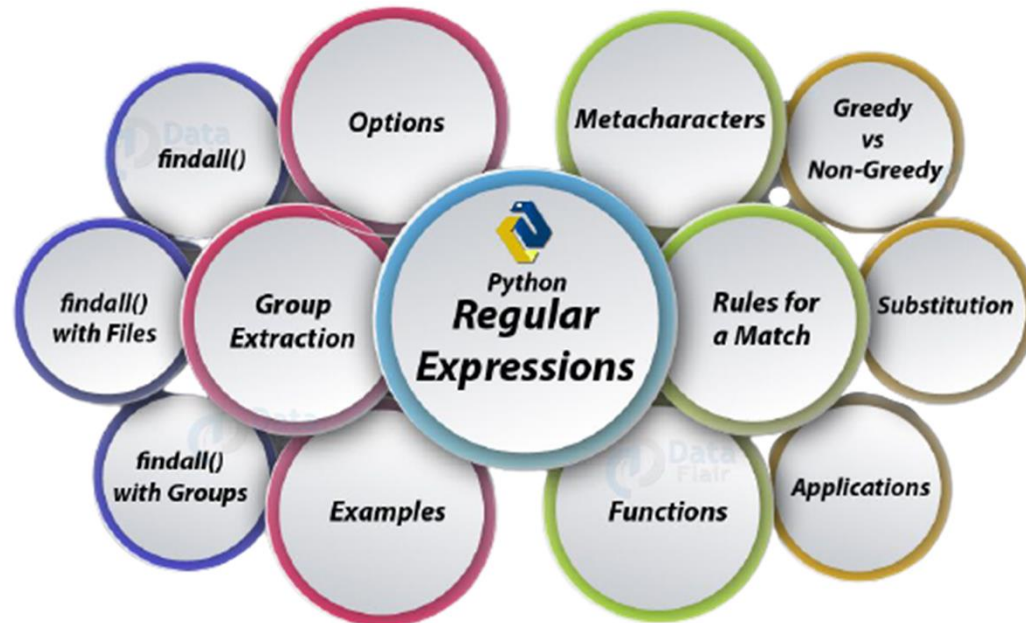


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❖ **Regular Expressions -:**

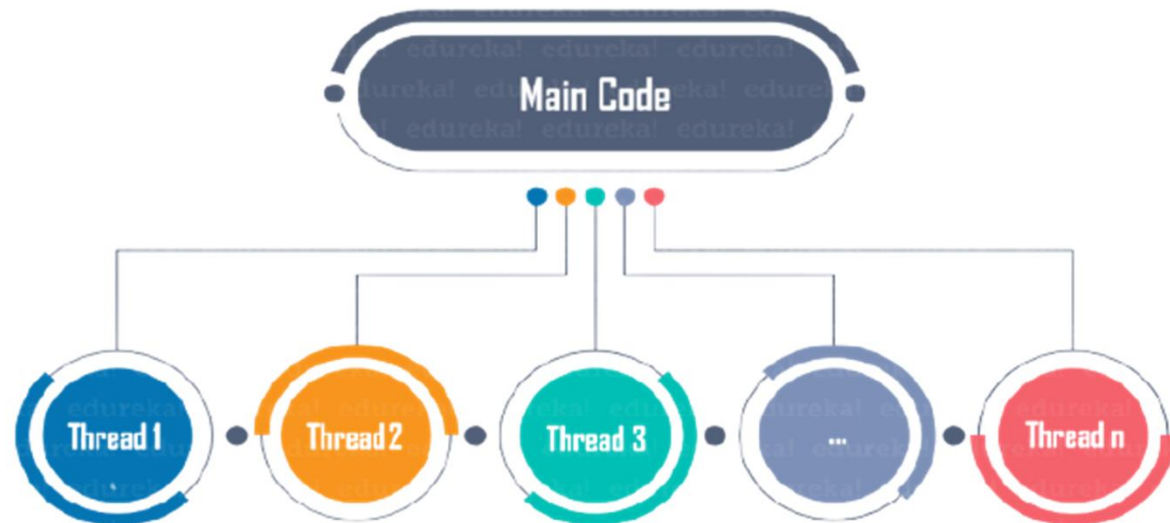
- ✓ What are regular expressions?
- ✓ The match Function
- ✓ The search Function
- ✓ Matching vs searching
- ✓ Search and Replace
- ✓ Extended Regular Expressions
- ✓ Wildcard





❖ Multithreaded Programming -:

- ✓ What is multithreading?
- ✓ Starting a New Thread
- ✓ The Threading Module
- ✓ Synchronizing Threads
- ✓ Multithreaded Priority Queue



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❖ Using Databases in Python -:

- ✓ Python MySQL Database Access
- ✓ Install the MySQLdb and other Packages
- ✓ Create Database Connection
- ✓ CREATE, INSERT, READ, UPDATE and DELETE Operation
- ✓ DML and DDL Oepration with Databases
- ✓ Performing Transactions
- ✓ Handling Database Errors
- ✓



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❖ Data Analysis -:

- ✓ Numpy:
- ✓ Introduction to numpy
- ✓ Creating arrays
- ✓ Using arrays and Scalars
- ✓ Indexing Arrays
- ✓ Array Transposition
- ✓ Universal Array Function
- ✓ Array Processing
- ✓ Array Input and Output
- ✓ Pandas:
- ✓ What is pandas?
- ✓ Where it is used?

- ✓ Series in pandas
- ✓ Index objects
- ✓ Reindex
- ✓ Drop Entry
- ✓ Selecting Entries
- ✓ Data Alignment
- ✓ Rank and Sort
- ✓ Summary Statics
- ✓ Missing Data
- ✓ Index Heirarchy+C104:D125

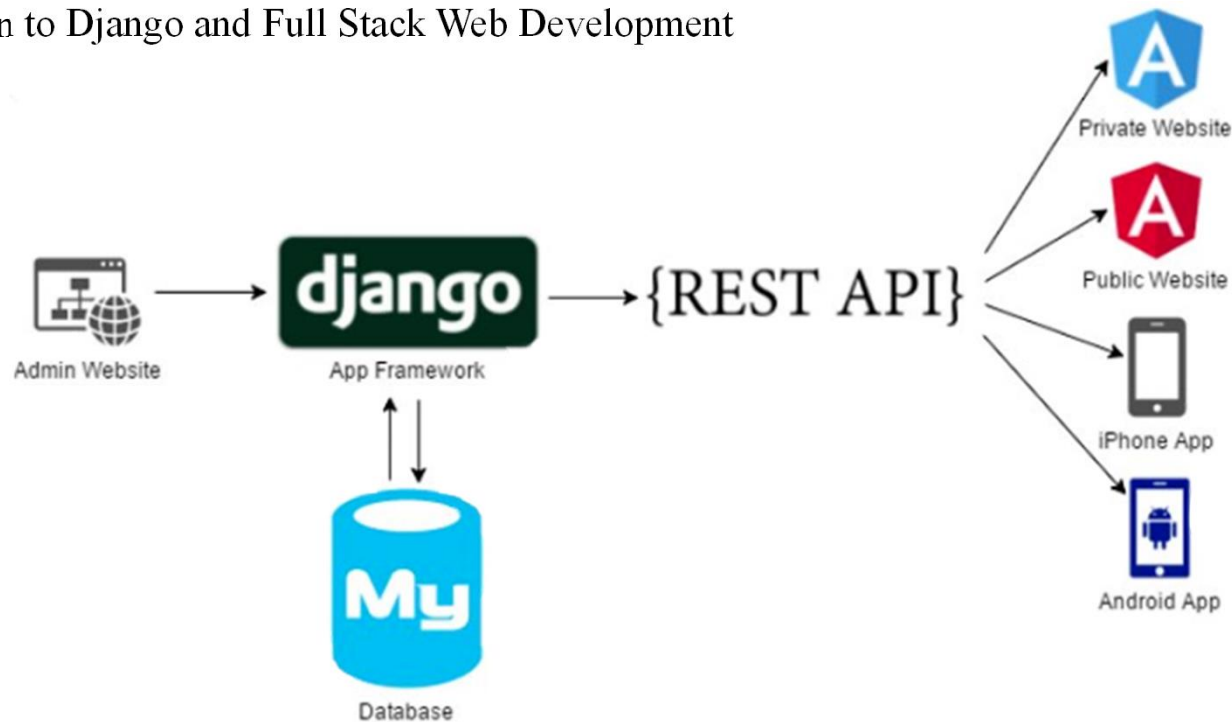


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❖ Django Web Framework in Python -:

- ✓ Introduction to Django and Full Stack Web Development



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