

## **Junior Software Engineer Training Module - Batch 2022**

S.NO	Juni Days	Date & Time	Topics	Trainer Name
1	1	Dute & Time	Overview	Trainer Hame
1.1		09 March 2022	Why do we need Python?	
1.2			Structure	
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2			Environment Setup	
2.1				
2.2			Execution Types	
2.3	1	10 March 2022	What is an interpreter?	
2.4			Interpreters vs Compilers	
2.5			Using the Python Interpreter	
2.6			Interactive Mode	
2.7	1	11 March 2022	Running python files	
2.8			Working with Python shell	
2.9	4	4444   2000	Integrated Development Environments (IDES)	
2.1	1	14 March 2022	Interactive Mode Programming	
2.11			Script Mode Programming	
3		15 March 2022	Basic Operators in Python	
3.1			Types of Operator	
3.2	1		Python Arithmetic Operators	
3.3			Python Comparison Operators	
3.4		16 March 2022	Python Assignment Operators	Mr. Ashish
3.5	1		Python Bitwise Operators	Gavshinde
3.6			Python Logical Operators	Gavsiiiide
3.7	1	17 March 2022	Python Membership Operators (in, not in)	
3.8	1		Python Identity Operators (is, is not)	
3.9	1			
			Python Operators Precedence	
			Python Operators Precedence	
4		18 March 2022	Python Operators Precedence  Basic Concepts	
		18 March 2022		
4	1	18 March 2022	Basic Concepts	
<b>4</b> 4.1	1	18 March 2022	Basic Concepts Data Types	
<b>4</b> 4.1 4.2	1	18 March 2022 21 March 2022	Basic Concepts Data Types Variables	
<b>4</b> 4.1 4.2 4.3	1		Basic Concepts  Data Types  Variables  Assigning Values to Variables	
<b>4</b> 4.1 4.2 4.3 4.5			Basic Concepts Data Types Variables Assigning Values to Variables Multiple Assignment	
4.1 4.2 4.3 4.5 4.6			Basic Concepts Data Types Variables Assigning Values to Variables Multiple Assignment Python Numbers	
4 4.1 4.2 4.3 4.5 4.6 4.7		21 March 2022	Basic Concepts Data Types Variables Assigning Values to Variables Multiple Assignment Python Numbers Python Strings	

4.11	1	24 March 2022	Triple Quotes
4.12		Z4 Warch 2022	Built-in String Operations
4.12	1		Built-iii String Operations
4.13			Python Lists
4.14		25 March 2022	Accessing Values in Lists
4.15	1		Updating Lists
4.16			Delete List Elements
4.17		28 March 2022	Basic List Operations
4.18	1		Indexing, Slicing, and Matrixes
4.19	1		Built-in List Functions & Methods
4.2		29 March 2022	Python Tuples
4.21	1		Accessing Values in Tuples
4.22			Updating Tuples
4.23		30 March 2022	Delete Tuple Elements
4.24	1		Basic Tuples Operations
4.25	1		Indexing, Slicing, and Matrixes
4.26		31 March 2022	No Enclosing Delimiters
4.27	1		Built-in Tuple Functions
4.28	1		Python Dictionary
4.29		01 April 2022	Accessing Values in Dictionary
4.3	1	•	Updating Dictionary
4.31			Delete Dictionary Elements
4.32		04 April 2022	Properties of Dictionary Keys
4.33	1	·	Built-in Dictionary Functions & Methods
5			Loops and Decision Making
5.1		05 April 2022	if statements
5.2	1	•	else statements
5.3	1		nested if statements
5.4		06 April 2022	while loop
5.5	1		for loop
5.6	1		nested loops
5.7		07 April 2022	Loop Control Statements
5.8	1		Break Statement
5.9	1		Continue statement
5.1	1		Pass Statement
			·
6		11 April 2022	Functions
		11 April 2022	
6.1	1	11 April 2022	Defining a Function
6.1 6.2	1	11 April 2022	Defining a Function Syntax
6.1 6.2 6.3	1		Defining a Function Syntax Calling a Function
6.1 6.2 6.3 6.4	1	11 April 2022 12 April 2022	Defining a Function Syntax Calling a Function Pass by reference vs value
6.1 6.2 6.3			Defining a Function Syntax Calling a Function

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6.7		13 April 2022	Keyword arguments
6.8	1	13 April 2022	Default arguments
6.9	i '		Variable-length arguments
0.5			variable length arguments
6.1	1	14 April 2022	The return Statement
6.11			Scope of Variables
7		15 April 2022	Global vs. Local variables
7.1			Built-in module and functions
7.2	1		Os module
7.3			mkdir()
7.4		18 April 2022	chdir()
7.5	1		getcwd()
7.6			rmdir()
7.7		19 April 2022	listdir()
7.8	1		Math module and functions
7.9			Constants
7.1		20 April 2022	Trigonometry
7.11	1		Logarithmic
7.12			Representation
7.13		21 April 2022	Random module and functions
7.14	1		random()
7.15	1		randint()
7.16		22 April 2022	randrange()
7.17	1		choice ()
7.18	1		shuffle ()
8		25 April 2022	Python Modules and Packages
8.1			Framework vs Packages
8.2	1		Folium Introduction
8.3	1		Why are modules used?
8.4		26 April 2022	Creating modules
8.5	1		The import Statement
8.6	]		The fromimport Statement
8.7		27 April 2022	The fromimport * Statement
8.8	1		Locating Modules
8.9	]		The PYTHONPATH Variable
8.1		28 April 2022	Namespaces and Scoping
8.11	1		The dir() Function
8.12	1		The globals() and locals() Functions
8.13		29 April 2022	The reload() Function
8.14	1		Packages in Python
8.15	1		Constructing user defined packages
8.16	1		Importing user defined packages

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9		02 May 2022	Basic OOPs Concept
9.1		C   May 2022	Creating class in Python
9.2	1		Private Identifier
9.3	1		Constructor
5.5			Constructor
9.4	1	03 May 2022	Inheritance
9.5			Polymorphism
9.6			Decorator, Iterator and Generator
10			Anonymous Function
10.1		04 May 2022	Lambda
10.2	1		Мар
10.3	] '		Filter
10.4			Reduce
11			File Manipulation
11.1		05 May 2022	Opening Text File
11.2	1		Working with a File on Python
11.3			The open function
11.4		06 May 2022	File modes
11.5	1		The file object attributes
11.6	1		close() method
11.7		09 May 2022	write() method
11.8	1		read() method
11.9	1		Files: Input
11.1		10 May 2022	Files: Output
11.11	1		Reading files
11.12	1		Renaming & deleting files
11.13	1	11 May 2022	Writing into a file
11.14	1		remove() method
	1		
12			Python GUI
12.1		12 May 2022	Basic Operations using Tkinter
12.2	1		Buttons and Textbox
12.3			Menu Bar
12.4		13 May 2022	Message Box and Radio Button
12.5	1		Checkbox and Event Creating
12.6			Creating Application in GUI
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13			SQL and Python
13.1		16 May 2022	Overview of SQLite
13.2	1		Integrating Python with SQLite
14			Other Concepts
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14.1		17 May 2022	Errors and Exception Handling	
14.2	1		Standard exceptions	1
14.3			Assertions in Python	]
14.4		18 May 2022	The assert Statement	
14.5	1		What is Exception?	
14.6			Handling an exception	
14.7		19 May 2022	Syntax	
14.8	1		The except Clause with No Exceptions	
14.9	'		The except Clause with Multiple Exceptions	
14.1		20 May 2022	The try-finally Clause	1
14.11	1		Argument of an Exception	]
14.12	1		Example with Tkinter Application	Mr. Ashish
14.13			Regular Expression	Gavshinde
15			Advanced Concept – Overviews	
15.1		23 May 2022	Basics of Pandas and Numpy	
15.2	1		How to use Anaconda	
15.3			How to create dashboard	