Chapter 1: Working with Files		1-1 to 1-17
1.1	Files	1-1
1.2	Opening and Closing a File	1-2
	1.2.1 The open() Function	1-3
	1.2.2 The close() Function	
1.3	Working with Text Files Containing Strings	1-4
1.4	Knowing Whether a File Exists or Not	1-6
1.5	Working with Binary Files	1-7
	1.5.1 The 'with' Statement	1-8
1.6	The seek() and tell() Methods	1-9
	1.6.1 tell() Method	1-9
	1.6.2 seek() Method	1-10
1.7	Random Accessing of Binary Files	1-11
1.8	Zipping and Unzipping Files	1-12
1.9	Working with Directories	1-14
1.10	Running other Programs from Python Program	1-15
Chapte	er 2 : Regular Expressions	2-1 to 2-18
2.1	What is a Regular Expression ?	2-1
	2.1.1 Regex Functions/Methods	
2.2	Sequence Characters in Regular Expressions	
2.3	Quantifiers in Regular Expressions	2-10
2.4	Special Characters in Regular Expressions	2-12
2.5	Using Regular Expression on Files	2-15
2.6	Retrieving Information from an HTML File	2-16
Chapte	er 3 : Threads in Python	3-1 to 3-16
3.1	Difference between Process and Thread	3-1
3.2	Types of Threads	
3.3	Benefits of Threads	
3.4	Creating Threads	
3.5	Single Tasking and Multitasking	
3.6	Thread Synchronization	
3.7	Deadlock in Threads	
3.8	Daemon Threads	3-13

1





Cnapte	er 4: Date and Time in Python	4-1 to 4-21
4.1	Introduction	4-1
	4.1.1 Date and Time Now	4-1
4.2	Combining Date and Time	4-4
4.3	Formatting Dates and Times	4-5
4.4	Finding Durations using "time delta"	4-7
4.5	Comparing Two Dates	4-12
4.6	Sorting Dates	4-12
4.7	Stopping Execution Temporarily	4-13
4.8	Knowing the Time Taken by a Program	4-15
4.9	Calendar Module	4-17
Chapte	er 5 : Database in Python	5-1 to 5-11
5.1	Using SQL with Python	5-1
5.2	Retrieving Rows from a Table	5-5
5.3	Inserting Rows into a Table	5-6
5.4	Deleting Rows from a Table	5-7
5.5	Updating Rows in a Table	5-8
5.6	Creating Database Tables through Python	5-8
5.7	Exception Handling in Databases	5-9
Chapte	er 6 : Exceptions in Python	6-1 to 6-19
6.1	Errors in a Python Program	6-1
	6.1.1 Compile Errors (Syntax errors)	6-1
	6.1.2 Runtime Errors (Exceptions)	6-2
	6.1.3 Logical Errors	6-2
6.2	Exceptions	6-3
	6.2.1 Exception Handling	6-3
	6.2.2 Standard Exceptions in Python	6-5
6.3	Types of Exception	6-6
6.4	Expect Block	6-9
	6.4.1 Raising Exceptions	6-11
6.5	The Assert Statement	
6.6	User-defined Exceptions	
6.7	Defining Clean-up Actions (try-finally)	







Chapter 10 : Classes and Objects		10-1 to 10-15
10.1	Creating a Class	10-1
10.2	The self-variable	10-2
10.3	Types of Variables	10-4
10.4	Namespaces	10-5
10.5	Types of Methods	10-6
	10.5.1 Instance Methods	
	10.5.2 Class Methods	
	10.5.3 Static Methods	
10.6	Passing Members of One Class to Another Class	10-11
10.7	Inner Classes	10-13
Chapter	11 : Inheritance and Polymorphism	11-1 to 11-28
11.1	Inheritance in Python	11-1
11.2	Types of Inheritance	
	11.2.1 Single Inheritance	11-2
	11.2.2 Multilevel Inheritance	11-3
	11.2.3 Hierarchical Inheritance	11-4
	11.2.4 Multiple Inheritance	11-5
11.3	Constructors in Inheritance	11-7
11.4	Overriding Super Class Constructors and Methods	11-8
11.5	The super () Method	11-10
11.6	Method Resolution Order (MRO)	11-12
11.7	Polymorphism	11-13
11.8	Duck Typing	11-16
11.9	Operator Overloading	11-17
11.10	Method Overloading	11-21
11.11	Method Overriding	11-22
Chapter	12 : Abstract Classes and Interfaces	12-1 to 12-11
12.1	Abstract Class	12-1
	12.1.1 Types of Methods in Python	12-2
12.2	Abstract Method	12-3
12.3	Interfaces in Python	12-6
12.4	Abstract Classes vs. Interfaces	12-9