Preface	XV
PLAN OF THE WORKBOOK SECTION 1. QUESTIONS AND EXERCISES	XVII
	1
UNIT 1. PYTHON BASICS	2
QUESTION 1.1	5
QUESTION 1.2	5
QUESTION 1.3	5
QUESTION 1.4	6
QUESTION 1.5	6
QUESTION 1.6	7
QUESTION 1.7	7
QUESTION 1.8	8
QUESTION 1.9	8
QUESTION 1.10	8
EXERCISE 1.1	9
EXERCISE 1.2	9
EXERCISE 1.3	10
EXERCISE 1.4	10
EXERCISE 1.5	11
EXERCISE 1.6	11
EXERCISE 1.7	12
EXERCISE 1.8	12
EXERCISE 1.9	12
EXERCISE 1.10	13
EXERCISE 1.11	13
EXERCISE 1.12	13
EXERCISE 1.13	14

EXERCISE 1.14	14
EXERCISE 1.15	15
UNIT 2. CONDITIONAL STATEMENTS	17
QUESTION 2.1	19
QUESTION 2.2	19
QUESTION 2.3	20
QUESTION 2.4	21
QUESTION 2.5	22
QUESTION 2.6	23
EXERCISE 2.1	24
EXERCISE 2.2	24
EXERCISE 2.3	24
EXERCISE 2.4	25
EXERCISE 2.5	25
EXERCISE 2.6	25
EXERCISE 2.7	26
EXERCISE 2.8	27
EXERCISE 2.9	28
EXERCISE 2.10	28
EXERCISE 2.11	29
UNIT 3. LOOPS	31
QUESTION 3.1	33
QUESTION 3.2	33
QUESTION 3.3	34
QUESTION 3.4	34
QUESTION 3.5	35
EXERCISE 3.1	35
EXERCISE 3.2	36
EXERCISE 3.3	36
EXERCISE 3.4	36
EXERCISE 3.5	37
EXERCISE 3.6	37
EXERCISE 3.7	38
EXERCISE 3.8	38
EXERCISE 3.9	38
EXERCISE 3.10	39
EXERCISE 3.11	39
EXERCISE 3.12	40
EXERCISE 3.13	40
EXERCISE 3.14	40

EXERCISE 3.15	41
UNIT 4. MODULES OF THE STANDARD LIBRARY	43
QUESTION 4.1	45
QUESTION 4.2	45
QUESTION 4.3	45
QUESTION 4.4	46
QUESTION 4.5	46
QUESTION 4.6	46
QUESTION 4.7	47
EXERCISE 4.1	47
EXERCISE 4.2	48
EXERCISE 4.3	48
EXERCISE 4.4	48
EXERCISE 4.5	49
EXERCISE 4.6	49
EXERCISE 4.7	49
EXERCISE 4.8	50
EXERCISE 4.9	50
EXERCISE 4.10	52
UNIT 5. FUNCTIONS	53
QUESTION 5.1	55
QUESTION 5.2	55
QUESTION 5.3	55
QUESTION 5.4	56
QUESTION 5.5	56
EXERCISE 5.1	57
EXERCISE 5.2	57
EXERCISE 5.3	58
EXERCISE 5.4	58
EXERCISE 5.5	59
EXERCISE 5.6	59
EXERCISE 5.7	60
EXERCISE 5.8	60
EXERCISE 5.9	61
EXERCISE 5.10	62
UNIT 6. EXCEPTIONS	65
QUESTION 6.1	67
QUESTION 6.2	67
QUESTION 6.3	68
QUESTION 6.4	68

QUESTION 6.5	69
EXERCISE 6.1	69
EXERCISE 6.2	70
EXERCISE 6.3	70
EXERCISE 6.4	71
EXERCISE 6.5	71
UNIT 7. SEQUENCES: STRINGS	73
QUESTION 7.1	75
QUESTION 7.2	75
QUESTION 7.3	76
QUESTION 7.4	76
QUESTION 7.5	77
EXERCISE 7.1	77
EXERCISE 7.2	77
EXERCISE 7.3	78
EXERCISE 7.4	78
EXERCISE 7.5	78
EXERCISE 7.6	79
EXERCISE 7.7	79
EXERCISE 7.8	79
EXERCISE 7.9	80
EXERCISE 7.10	80
EXERCISE 7.11	81
EXERCISE 7.12	81
EXERCISE 7.13	82
EXERCISE 7.14	82
EXERCISE 7.15	83
UNIT 8. SEQUENCES: LISTS AND TUPLES	85
QUESTION 8.1	87
QUESTION 8.2	87
QUESTION 8.3	87
QUESTION 8.4	88
QUESTION 8.5	88
EXERCISE 8.1	89
EXERCISE 8.2	89
EXERCISE 8.3	89
EXERCISE 8.4	90
EXERCISE 8.5	90
EXERCISE 8.6	90
EXERCISE 8.7	91

EXERCISE 8.8	91
EXERCISE 8.9	92
EXERCISE 8.10	92
EXERCISE 8.11	93
EXERCISE 8.12	93
EXERCISE 8.13	93
EXERCISE 8.14	94
EXERCISE 8.15	95
EXERCISE 8.16	95
UNIT 9. FILE ACCESS	97
QUESTION 9.1	99
QUESTION 9.2	99
QUESTION 9.3	100
QUESTION 9.4	100
QUESTION 9.5	100
EXERCISE 9.1	101
EXERCISE 9.2	101
EXERCISE 9.3	102
EXERCISE 9.4	103
EXERCISE 9.5	104
UNIT 10. DICTIONARIES	107
QUESTION 10.1	109
QUESTION 10.2	109
QUESTION 10.3	110
QUESTION 10.4	110
QUESTION 10.5	111
QUESTION 10.6	111
EXERCISE 10.1	112
EXERCISE 10.2	112
EXERCISE 10.3	112
EXERCISE 10.4	113
EXERCISE 10.5	113
EXERCISE 10.6	113
EXERCISE 10.7	114
EXERCISE 10.8	115
EXERCISE 10.9	115
EXERCISE 10.10	116
EXERCISE 10.11	116
UNIT 11. CLASSES	119
QUESTION 11.1	121

QUESTION 11.2	122
QUESTION 11.3	122
QUESTION 11.4	123
QUESTION 11.5	124
QUESTION 11.6	125
EXERCISE 11.1	126
EXERCISE 11.2	126
EXERCISE 11.3	127
EXERCISE 11.4	127
EXERCISE 11.5	128
EXERCISE 11.6	129
EXERCISE 11.7	130
EXERCISE 11.8	130
EXERCISE 11.9	131
EXERCISE 11.10	132
EXERCISE 11.11	133
UNIT 12. OTHER MODULES	135
QUESTION 12. 1	137
QUESTION 12. 2	137
QUESTION 12. 3	137
QUESTION 12. 4	138
QUESTION 12. 5	138
EXERCISE 12.1	138
EXERCISE 12.2	139
EXERCISE 12.3	140
EXERCISE 12.4	141
EXERCISE 12.5	142
EXERCISE 12.6	143
EXERCISE 12.7	144
EXERCISE 12.8	145
EXERCISE 12.9	146
EXERCISE 12.10	147
SECTION 2. ANSWERS AND COMMENTS	151
ANSWERS AND COMMENTS UNIT 1	153
CORRECT ANSWERS	153
COMMENT EXERCISE 1.1	154
COMMENT EXERCISE 1.2	154
COMMENT EXERCISE 1.3	155
COMMENT EXERCISE 1.4	155

COMMENT EXERCISE 1.5	155
COMMENT EXERCISE 1.6	156
COMMENT EXERCISE 1.7	156
COMMENT EXERCISE 1.8	156
COMMENT EXERCISE 1.9	156
COMMENT EXERCISE 1.10	157
COMMENT EXERCISE 1.11	157
COMMENT EXERCISE 1.12	157
COMMENT EXERCISE 1.13	157
COMMENT EXERCISE 1.14	158
COMMENT EXERCISE 1.15	158
ANSWERS AND COMMENTS UNIT 2	159
CORRECT ANSWERS	159
COMMENT EXERCISE 2.1	161
COMMENT EXERCISE 2.2	161
COMMENT EXERCISE 2.3	162
COMMENT EXERCISE 2.4	163
COMMENT EXERCISE 2.5	164
COMMENT EXERCISE 2.6	164
COMMENT EXERCISE 2.7	164
COMMENT EXERCISE 2.8	165
COMMENT EXERCISE 2.9	166
COMMENT EXERCISE 2.10	166
COMMENT EXERCISE 2.11	168
ANSWERS AND COMMENTS UNIT 3	169
CORRECT ANSWERS	169
COMMENT EXERCISE 3.2	169
COMMENT EXERCISE 3.4	170
COMMENT EXERCISE 3.6	170
COMMENT EXERCISE 3.9	171
COMMENT EXERCISE 3.10	171
COMMENT EXERCISE 3.15	171
ANSWERS AND COMMENTS UNIT 4	175
CORRECT ANSWERS	175
COMMENT EXERCISE 4.2	175
COMMENT EXERCISE 4.3	176
COMMENT EXERCISE 4.4	176
COMMENT EXERCISE 4.7	177
COMMENT EXERCISE 4.9	177
COMMENT EXERCISE 4.10	177

ANSWERS AND COMMENTS UNIT 5	179
CORRECT ANSWERS	179
COMMENT EXERCISE 5.2	179
COMMENT EXERCISE 5.3	180
COMMENT EXERCISE 5.5	180
COMMENT EXERCISE 5.6	181
COMMENT EXERCISE 5.9	181
COMMENT EXERCISE 5.10	182
ANSWERS AND COMMENTS UNIT 6	185
CORRECT ANSWERS	185
COMMENT EXERCISE 6.1	186
COMMENT EXERCISE 6.2	186
COMMENT EXERCISE 6.3	186
COMMENT EXERCISE 6.4	187
COMMENT EXERCISE 6.5	187
ANSWERS AND COMMENTS UNIT 7	189
CORRECT ANSWERS	189
COMMENT EXERCISE 7.1	190
COMMENT EXERCISE 7.2	191
COMMENT EXERCISE 7.3	191
COMMENT EXERCISE 7.4	191
COMMENT EXERCISE 7.5	191
COMMENT EXERCISE 7.6	192
COMMENT EXERCISE 7.7	192
COMMENT EXERCISE 7.8	192
COMMENT EXERCISE 7.9	193
COMMENT EXERCISE 7.10	193
COMMENT EXERCISE 7.11	193
COMMENT EXERCISE 7.12	194
COMMENT EXERCISE 7.13	195
COMMENT EXERCISE 7.14	195
COMMENT EXERCISE 7.15	196
ANSWERS AND COMMENTS UNIT 8	199
CORRECT ANSWERS	199
COMMENT EXERCISE 8.1	200
COMMENT EXERCISE 8.2	200
COMMENT EXERCISE 8.3	201
COMMENT EXERCISE 8.4	201
COMMENT EXERCISE 8.5	201
COMMENT EXERCISE 8.6	201

COMMENT EXERCISE 11.9	233
COMMENT EXERCISE 11.10	234
COMMENT EXERCISE 11.11	235
ANSWERS AND COMMENTS UNIT 12	239
CORRECT ANSWERS	239
COMMENT EXERCISE 12.1	239
COMMENT EXERCISE 12.2	240
COMMENT EXERCISE 12.3	240
COMMENT EXERCISE 12.4	241
COMMENT EXERCISE 12.5	241
COMMENT EXERCISE 12.6	242
COMMENT EXERCISE 12.7	243
COMMENT EXERCISE 12.8	243
COMMENT EXERCISE 12.9	244
COMMENT EXERCISE 12.10	244
AUTHORS	247