| | time.time() | 176 |
|-----|--|-----|
| | time.tzset() | 177 |
| | The calendar Module | 179 |
| | Other Modules and Functions | 181 |
| 14. | PYTHON – FUNCTIONS | 182 |
| | Defining a Function | 182 |
| | Calling a Function | 183 |
| | Passing by Reference Versus Passing by Value | 184 |
| | Function Arguments | 185 |
| | Required Arguments | 185 |
| | Keyword Arguments | 186 |
| | Default Arguments | 187 |
| | Variable Length Arguments | 188 |
| | The Anonymous Functions | 189 |
| | The return Statement | 190 |
| | Scope of Variables | 190 |
| | Global vs. Local variables | 191 |
| 15. | PYTHON – MODULES | 192 |
| | The import Statement | 192 |
| | The fromimport Statement | 193 |
| | The fromimport * Statement: | 193 |
| | Locating Modules: | 193 |
| | The PYTHONPATH Variable | 194 |
| | Namespaces and Scoping | 194 |
| | The dir() Function | 195 |

| | The globals() and locals() Functions | 196 |
|-----|--------------------------------------|-----|
| | The reload() Function | 196 |
| | Packages in Python | 196 |
| 16. | PYTHON – FILES I/O | 198 |
| | Printing to the Screen | 198 |
| | Reading Keyboard Input | 198 |
| | The raw_input Function | 198 |
| | The input Function | 199 |
| | Opening and Closing Files | 199 |
| | The open Function | 199 |
| | The file Object Attributes | 201 |
| | The close() Method | 202 |
| | Reading and Writing Files | 203 |
| | The write() Method | 203 |
| | The read() Method | 204 |
| | File Positions | 204 |
| | Renaming and Deleting Files | 205 |
| | The rename() Method | 206 |
| | The remove() Method | 206 |
| | Directories in Python | 207 |
| | The mkdir() Method | 207 |
| | The chdir() Method | 207 |
| | The getcwd() Method | 208 |
| | The rmdir() Method | 208 |
| | File and Directory Related Methods | 209 |

| | file.close() | 210 |
|-----|--|-----|
| | File.flush() | 211 |
| | File.fileno() | 212 |
| | File.isatty() | 213 |
| | File.next() | 214 |
| | File.read([size]) | 215 |
| | File.readline([size]) | 216 |
| | file.readline([sizehint]) | 218 |
| | file.seek(offset[,whence]) | 219 |
| | file.tell() | 221 |
| | file.truncate([size]) | 222 |
| | file.write(str) | 224 |
| | file.writelines(sequence) | 225 |
| | OS Object Methods | 227 |
| 17. | PYTHON – EXCEPTIONS | 233 |
| | Assertions in Python | 235 |
| | The assert Statement | 235 |
| | What is Exception? | 236 |
| | Handling an Exception | 236 |
| | The except Clause with No Exceptions | 238 |
| | The except Clause with Multiple Exceptions | 239 |
| | The try-finally Clause | 239 |
| | Argument of an Exception | 240 |
| | Raising an Exception | 241 |
| | User-Defined Exceptions | 242 |
| | | |

| 18. | PYTHON – CLASSES AND OBJECTS | . 244 |
|-----|--|-------|
| | Overview of OOP Terminology | 244 |
| | Creating Classes | 245 |
| | Creating Instance Objects | 246 |
| | Accessing Attributes | 246 |
| | Built-In Class Attributes | 248 |
| | Destroying Objects (Garbage Collection) | 249 |
| | Class Inheritance | 251 |
| | Overriding Methods | 252 |
| | Base Overloading Methods | 253 |
| | Overloading Operators | 254 |
| | Data Hiding | 255 |
| 19. | PYTHON – REGULAR EXPRESSIONS | 257 |
| | The match Function | 257 |
| | The search Function | 259 |
| | Matching Versus Searching | 260 |
| | Search and Replace | 261 |
| | Regular-Expression Modifiers: Option Flags | 261 |
| | Regular-Expression Patterns | 262 |
| | Regular-Expression Examples | 265 |
| | Grouping with Parentheses | 267 |
| | Backreferences | 267 |
| 20. | PYTHON – CGI PROGRAMMING | 270 |
| | What is CGI? | 270 |
| | Web Browsing | 270 |

| | CGI Architecture | 271 |
|-----|--|-------|
| | Web Server Support and Configuration | 271 |
| | First CGI Program | 272 |
| | HTTP Header | 273 |
| | CGI Environment Variables | 274 |
| | GET and POST Methods | 275 |
| | Passing Information using GET method: | 276 |
| | Simple URL Example : Get Method | 276 |
| | Simple FORM Example: GET Method | 277 |
| | Passing Information Using POST Method | 278 |
| | Passing Checkbox Data to CGI Program | 279 |
| | Passing Radio Button Data to CGI Program | 280 |
| | Passing Text Area Data to CGI Program | 281 |
| | Passing Drop Down Box Data to CGI Program | 283 |
| | Using Cookies in CGI | 284 |
| | How It Works? | 284 |
| | Setting up Cookies | 285 |
| | Retrieving Cookies | 285 |
| | File Upload Example | 286 |
| | How To Raise a "File Download" Dialog Box? | 288 |
| 21. | PYTHON – DATABASE ACCESS | . 289 |
| | What is MySQLdb? | |
| | How do I Install MySQLdb? | |
| | Database Connection | |
| | | |
| | Creating Database Table | 292 |