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| **Subject:** | Programming with Python (01CT1309) |
| **Program and Semester:** | B. Tech. 3rd Semester |

**List of experiments**

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| Sr No. | Module | Topic |
| 1 | Lab-01 | To write python code for different number datatypes |
| 2 |  | To write python code to perform different arithmetic operations on numbers |
| 3 | Lab-02 | To write python code to perform string operations |
| 4 |  | To write python code to print current Date format |
| 5 | Lab-03 | To write python code to create, append, remove list and control structures |
| 6 | Lab-04 | To write python code to demonstrate working with tuples |
| 7 | Lab-05 | To write python code to demonstrate working with dictionaries |
| 8 | Lab-06 | To write python code to find largest from three numbers |
| 9 |  | To write python code to convert temperature from Celsius to Fahrenheit. |
| 10 |  | To write python code to print prime numbers from given number |
| 11 | Lab07 | To write python code to find factorial of a number using recursion |
| 12 |  | To write python code for triangle (length of three sides) |
| 13 |  | To write python code for to find right angle triangle (Using Pythagorean theorem) |
| 14 | Lab-08 | To write python code to define a module to find Fibonacci numbers and import the module to another code. |
| 15 |  | To write python code to define a module and import a specific function in that module to another code. |
| 16 | Lab-09 | To write python code to call data and function using classes and objects |
| 17 |  | To write python code to read subject marks and display result of students |
| 18 | Lab-10 | To write python code for validation of user data (Email, Mobile no, Aadhar card) |
| 19 | Lab-11 | To write python code for GUI |
| 20 | Lab-12 | To write python code for file handling (text file) |
| 21 | Lab-13 | To write python code take input as text file and print all unique words in the file in alphabetical order |
| 22 | Lab-14 | To write python code for GUI (Student Data Entry: - Roll No, Student Record, Percentage) |
| 23 | Lab-15 | To write micro python code for LED Blinking on ESP32 board |
| 24 | Lab-16 | To write micro python code for Switch through LED Blinking on ESP32 board |
| 25 | Lab-17 | To write micro python code for sensor data update on ESP32 board |