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GE8161 PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To write, test, and debug simple Python programs.
- To implement Python programs with conditionals and loops.
- Use functions for structuring Python programs.
- Represent compound data using Python lists, tuples, dictionaries.
- Read and write data from/to files in Python.

LIST OF PROGRAMS

- 1. Compute the GCD of two numbers.
- 2. Find the square root of a number (Newton's method)
- 3. Exponentiation (power of a number)
- 4. Find the maximum of a list of numbers
- 5. Linear search and Binary search
- 6. Selection sort, Insertion sort
- 7. Merge sort
- 8. First n prime numbers
- 9. Multiply matrices
- 10. Programs that take command line arguments (word count)
- 11. Find the most frequent words in a text read from a file
- 12. Simulate elliptical orbits in Pygame
- 13. Simulate bouncing ball using Pygame