

Department of Computer Science and Engineering PES University, Bangalore, India

Lecture Notes Python for Computational Problem Solving UE23CS151A

Lecture #60
Programs on Recursion

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Problems on Recursion:

Solutions are available in this link:

https://drive.google.com/file/d/1SUWvLXn57iXFsxC4LHK107X2hH7ZKONa/view?usp=sharing

- 1. Compute the GCD of two numbers using recursion.
- 2. Generate Fibonacci Series upto n terms using recursion.
- 3. Solve the Tower of Hanoi Puzzle for a given n discs using recursion.
- 4. Calculate the length of the string using recursion.
- 5. Calculate the sum of first n natural numbers using recursion.
- 6. Write a recursive function that accepts two numbers with variables a and b and calculate a power b or a raised to b. Test the recursive function.
 - 7. Find the subtraction of two numbers using recursion.
 - 8. Find the product of two numbers using recursion.
 - 9. Find the quotient of two numbers using recursion.
 - 10. Mimic the in operator using recursion.

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