

Homework 3
Data Structures
IIIT Raichur

Your hash table size is 1009. You can use the random number generator to generate keys for the hashing.

- 1. Write a program to hash set of keys using the following hash functions and compare the number of collisions occur for
- i) Division method
- ii) Mid Square method
- ii) Folding methods (pure folding, fold shifting, fold boundary)

Use a) Linear Probing and b) Chaining

- 2. Further write another program for the linear probing and use the following techniques to see how primary, and secondary clustering forms
  - a) Random Hashing
  - b) Quadratic probing
  - c) Double hashing or rehashing