

## ADVANCED DATASTRUCTURES LAB MANUAL

### EXERCISE-1:

**AIM:** To implement functions of Dictionary using Hashing ( Division method, Multiplication method)

#### DESCRIPTION:-

Dictionary is a collection of data elements uniquely identified by a field called key.

- A dictionary supports the operations of search,insert and delete.
- A dictionary supports both sequential and random access.
- These are useful in implementing symbol tables,text retrieval systems,data base systems,etc.

**Hash tables:** "Hash table" is a data structure in which keys are mapped to array positions by a hash function.

**Hash function:** A "Hash function" is simply a mathematical formula which when applied to a key,produce an integer which can be used as an index for the key in the hash table.

**Hashing:**The process of mapping the keys to appropriate locations(or indexes) in a hash table is called "Hashing"

There are different types of hash functions to calculate the hash value.They are

- 1.Division method
- 2.Multiplication method
- 5.Universal hashing

#### Division method:

It is the most simple method of hashing an integer x.This method divides x by M and then uses the remainder that is obtained.The hash function can be given as

$$H(x)=x \bmod M$$

The division method is good for any value of M because it requires only a single division method or operation .It works very fast.But care must be taken to select a suitable value for M.

- Generally it is best to choose M to be a prime number .
- And M should also be not too close to the exact powers of 2.

# Advanced Datastructures Manual

**Sabine Zange**



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