Store Data of Students in File  
(Primary Index Using Binary Search and Hashing Techniques)

# **Summary:** This program for storing data about students, where each student has the (ID, Name and Address), then to search inside the data file you will use the ID field as a primary index.

# **Implementation 1:** • The **search** is done by using **primary index** which is implemented using **binary search tree**. • **Data file organization** is **(variable length record**): **length indicator records, delimited fields.**

# **Implementation 2:** • The **search** is done by using the **hashing technique**. • **Address** **space** **N= 997, Bucket size** = **2**. • **Hashing method**: ***Chaining with separate overflow area***technique to handle collision, the **hash function** is the ***multiplication method****.* • **Data file organization** is **fixed record length,** **delimited fields**.