lab 8 1BM18CS 153 25/11/2020

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Implement Hashing using chaining

```
Dictionary :: Dictionary ()
{
 index = -1;
  for (int i=0 ; i<max ; i++)
  {
     root[i] = NULL;
     ptr[i] = null;
     temp[i] = null;
   }
 }


  void Dictionary :: insert (int key)
 {
    index = int (key % max)
    ptr[index] = (node_type *) malloc(sizeof(node_type))
    ptr[index].data = key;

    if (root[index] == null)
    {
      root[index] = ptr[index];
      root[index].next = NULL;
       temp[index] = ptr[index];
    }
    else
    {
        temp[index] = root[index];
        while (temp[index].next != NULL){
            temp[index] = temp[index].next;
        temp[index].next = ptr[index];
     }
 }
```

```
void Dictionary :: search (int key)
{ int flag = 0;
  index = int (key % max);
  temp[index] = root [index];
  while( temp [index] != NULL)
  {
     if (temp[index] . data == key)
     {
        system.out.println ("in search
        key is found");
        flag = 1;
        break;
     }
     else temp[index] = temp[index].next
  if (flag == 0) {
  system.out.println ("search key
        not found");
```