25/11/2020 ADS - LAB - 8 REVANTH-R
1BM18CS082

Function of dictionary
using Hashing

// search function

```
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)
        { cout << "In Search success";
          flag = 1; break;
        }
        else
    temp[index] = temp[index] -> next;
    }
    if (flag == 0)
    cout << "In Search unsuccessful";
}
// Dictionary
Dictionary :: Dictionary () {
```

```
index = -1;
for (int i=0; i< max; i++) {
    root[i] = NULL;
    ptr[i] = NULL;
    temp[i] = NULL;
} }
// insert function
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];
}}
```

Delete Function

```
void Dictionary :: delete_ele(int key)
{
    index = int (key * man);
    temp[index] = root[index];
while (temp[index] -> data != key &&
    temp[index] != NULL)
{
    ptr[index] = temp[index];
temp[index] = temp[index] -> next ; }
ptr[index] -> next = temp[index] -> next;
cout << "In " << temp[index] -> data << " has deleted";
    temp[index] -> data = -1;
    temp[index] = NULL;
    free (temp[index]);
}
```