## Database Systems Lab

SESSION 2a

## Implementing non-indexed search

In this lab session, you will begin with a basic implementation of Personal Data Store (PDS). This version **does not use any index**.

You are given a partial implementation of PDS. Complete the following tasks:

Implement the following functions in pds.c

```
int pds_create (char *repo_name );
int pds_open( char *repo_name, int rec_size );
int put_rec_by_key( int key, struct Contact *rec );
int get_rec_by_key( int key, struct Contact *rec );
int pds_close();
```

- 1. Implement pds open by adding the following functionality:
  - a. Open the file
  - b. Store file pointer in a global struct
- Implement get\_rec\_by\_key:
  - a. Read record-record-by record from data file
  - b. Compare key of the record with the given key
  - c. Return record if record is found
- 3. Implement put\_rec\_by\_key:
  - a. Store the given record at the END of the data file
- 4. Implement pds close
  - a. Close the repo file
  - b. Update file pointer and status in global struct

## **Submission**

a. Test your program thoroughly with the given driver program

## gcc -o output roll\_bo\_pds.c contact.c contact\_driver.c ./output

b. Rename rollno\_pds.c to IMT\_roll\_no\_pds.c . Upload only roll\_no\_pds.c file