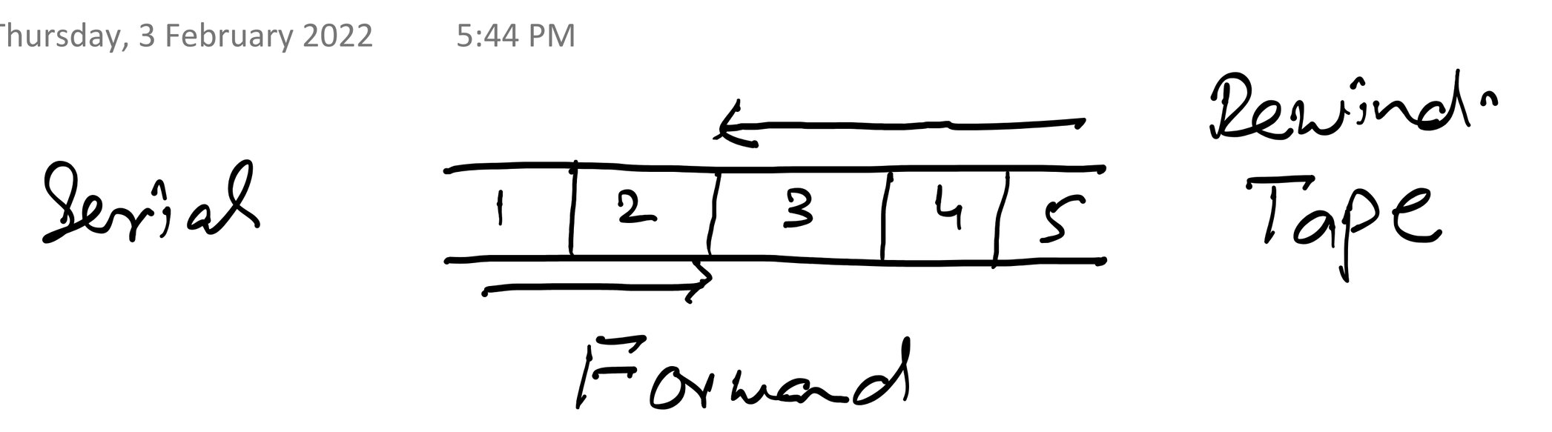
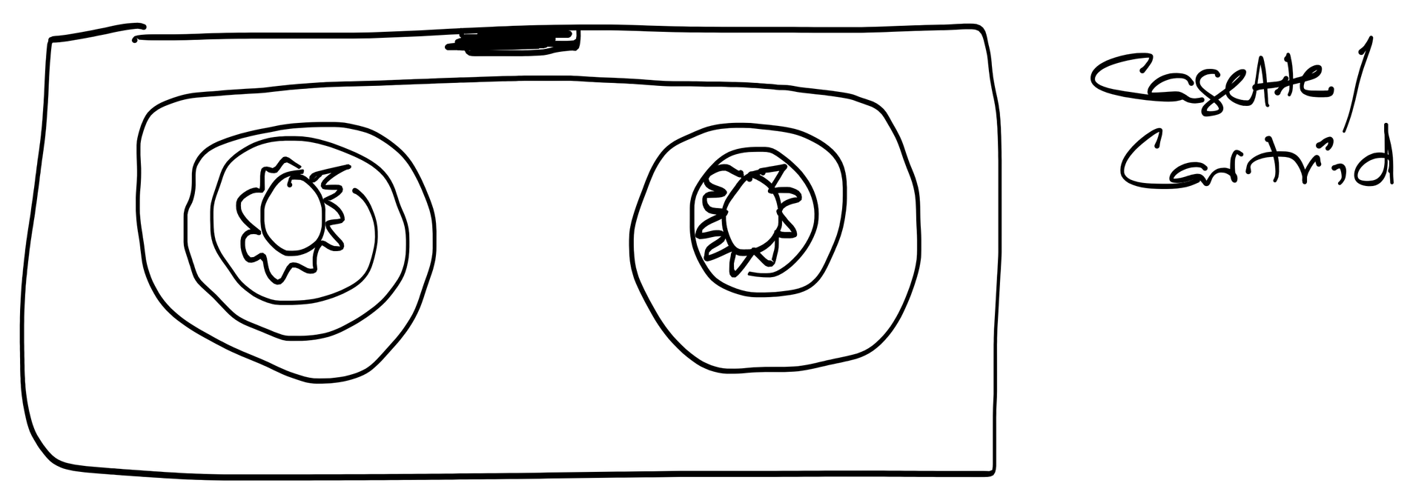
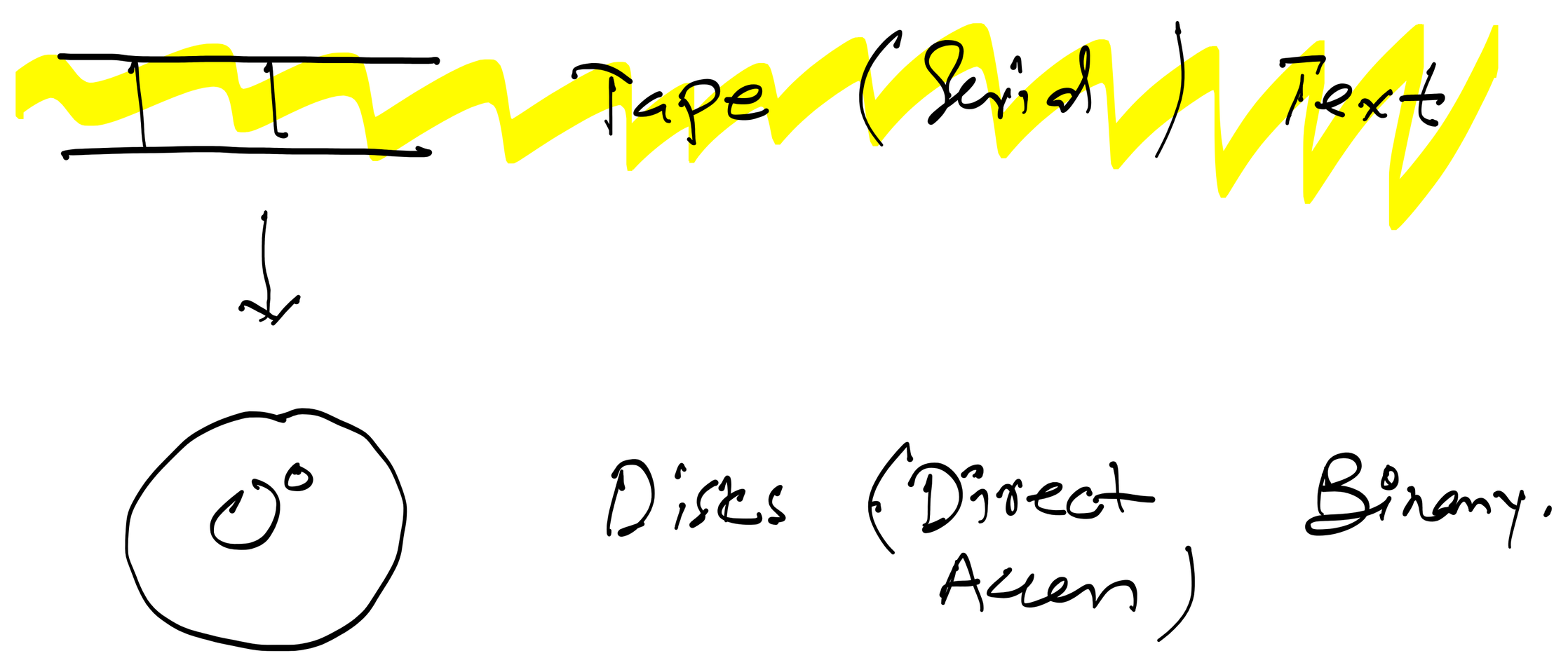
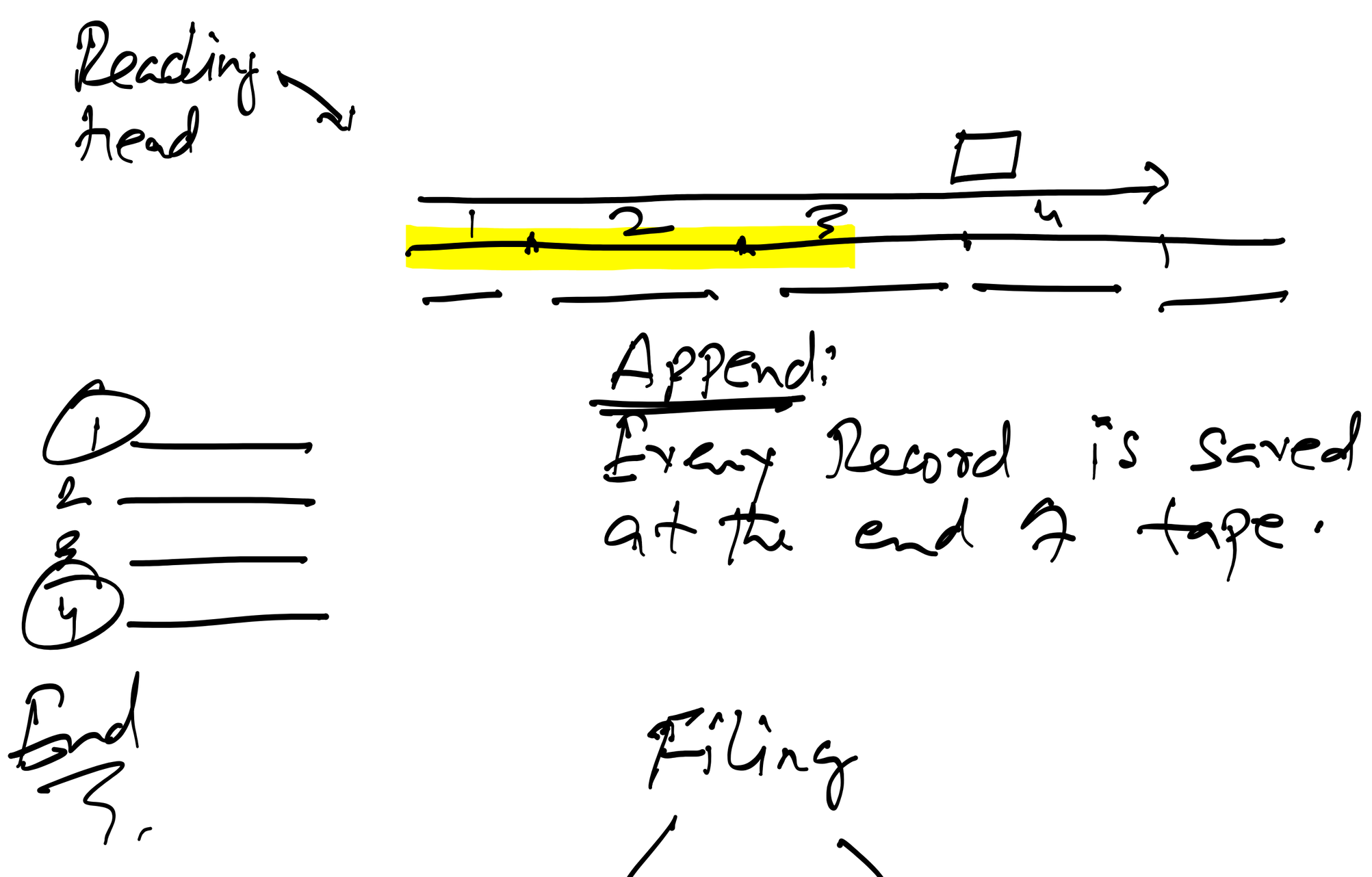
Filing

Thursday, 3 February 2022 5:44 PM









Filing
- Serial (Tape)
  - Serial Chronological Time order.
  - Sequential
- Direct Access (Disk).

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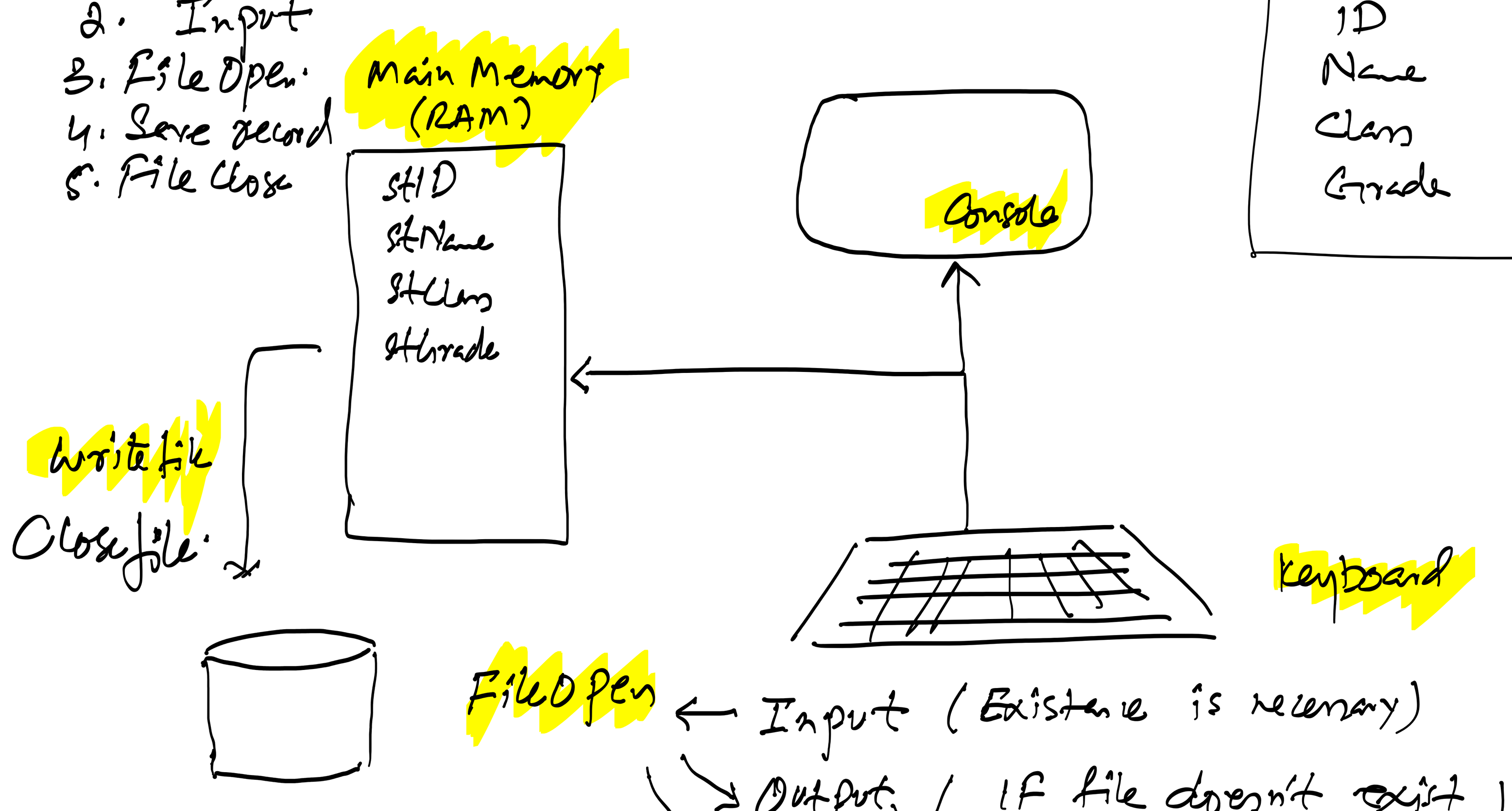
1. DECLARE / Initialise
2. Input
3. File Open
4. Save record
5. File Close

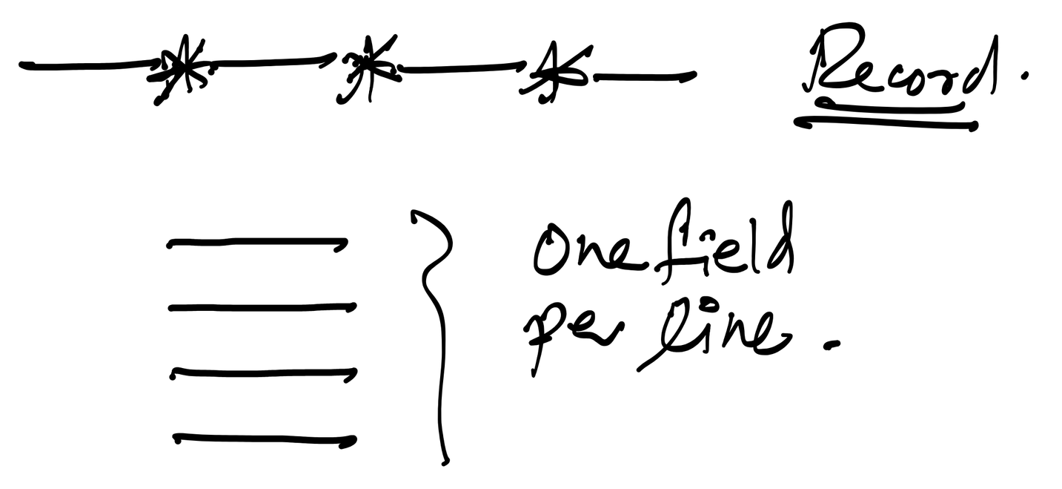
Students
- ID
- Name
- Class
- Grade



FileOpen ← Input (Existence is necessary)
- Output (If file doesn't exist then system creates it)
- Append — Open file and adds records at the end
- (If file exists then delete it and re-creates it.)

```
DECLARE stID : INTEGER
DECLARE stName : STRING
DECLARE stClass : STRING
DECLARE stGrade : CHAR.

stID ← 0
stName ← ""
stClass ← ""
stGrade ← ''
```




```
OPENFILE "abc.txt" FOR APPEND

REPEAT
    INPUT "Enter ID, 0 to end.", stID
    IF stID <> 0 Then
        INPUT "Enter Name:", stName
        INPUT "Enter Class:", stClass
        INPUT "Enter Grade:", stGrade

        WRITEFILE "abc.txt", stID
        WRITEFILE "abc.txt", stName
        WRITEFILE "abc.txt", stClass
        WRITEFILE "abc.txt", stGrade
    ENDIF
UNTIL stID = 0
CloseFile "abc.txt"
```

```
DECLARE stID : INTEGER
DECLARE stName : STRING
DECLARE stClass : STRING
DECLARE stGrade : CHAR.

stID ← 0
stName ← ""
stClass ← ""
stGrade ← ''

OPENFILE "abc.txt" FOR INPUT
WHILE NOT EOF("abc.txt")
    READFILE "abc.txt", stID
    READFILE "abc.txt", stName
    READFILE "abc.txt", stClass
    READFILE "abc.txt", stGrade

    OUTPUT "Student ID: ", stID
    OUTPUT "Student Name: ", stName
    OUTPUT "Student Class: ", stClass
    OUTPUT "Student Grade: ", stGrade
ENDWHILE.

CLOSEFILE "abc.txt"
```

```
DECLARE isFound : BOOLEAN.
DECLARE ID2Search : INTEGER
DECLARE stID : INTEGER
DECLARE stName : STRING
DECLARE stClass : STRING
DECLARE stGrade : CHAR.

stID ← 0          , isFound ← False
stName ← ""       , ID2Search ← 0
stClass ← ""
stGrade ← ''

INPUT "Enter ID to Search for: ", ID2Search ✓

OPENFILE "abc.txt" FOR INPUT
WHILE NOT EOF("abc.txt")
    READFILE "abc.txt", stID ✓
    READFILE "abc.txt", stName
    READFILE "abc.txt", stClass
    READFILE "abc.txt", stGrade

    IF stID = ID2Search Then
        OUTPUT "Student ID: ", stID
        OUTPUT "Student Name: ", stName
        OUTPUT "Student Class: ", stClass
        OUTPUT "Student Grade: ", stGrade
        isFound = TRUE
    ENDIF
ENDWHILE.

CLOSEFILE "abc.txt"

IF isFound = FALSE THEN OUTPUT "Record NOT found!!!"
```