Employee Database Pseudocode

Initialise Header Record

Initialise Record

Initialise pointer, pointer2 to Record

Initialise header pointer to Header Record

Declare Add, Delete, List, Compact function prototypes

Output Main Menu

Input Selection

Function Add()

Open infile to employee.dat in rb

If open fails

Output Error

Open outfile to employee.dat in wb

Set header pointer contents to 0

Write header pointer to employee.dat

Close Outfile

Call Add()

Else

Open headerfile to employee.dat in r+b

Open outfile to employee.dat in ab

While again = y

Read infile header into header pointer

Increment header pointer

Write header pointer into headerfile

Input Employee into pointer

Input Last name into pointer

Input First name into pointer

Input Address into pointer

Input Department code into pointer

Input Duration into pointer

Write pointer into outfile

Input again

End while

End if

Close headerfile, infile, outfile

End function Add()

Function Delete()

Open outfile to employee.dat in r+b

If open fails

Output Error

Else

Open ft to temp.dat in wb

Read outfile header into header pointer

Input user id

While outfile reads records to pointer and does not return 0

If pointer Id = user id

Pointer id = \*

Write pointer to ft

Open headerfile to temp.dat

Increment deleted variable in header pointer

Write header pointer to headerfile

Else

Write pointer to ft

End while

End If

Close ft, outfile

Remove employee.dat

Rename employee.dat to temp

End Function Delete()

Function List

Open infile to employee.dat for rb

If open fails

Output Error

Else

Read infile header to header pointer

While infile reads records to pointer and does not return 0

If pointer Id != \*

Output pointer

End if

Output header pointer

End while

End if

End Function List()

Function Compact()

Open infile to employee.dat in rb

Open outfile to temp.dat in wb

Open headerfile to temp.dat in r+b

If open infile fails

Output error

Else

Read infile header into header pointer

While infile reads records to pointer and does not return 0

If record id != \*

Write record to outfile

Else

Decrement header pointer total records variable

Decrement header pointer deleted records variable

Write header pointer to headerfile

End If

End if

Close headerfile, infile, outfile

Remove employee.dat

Rendame temp.dat to employee.dat

End Fucntion Compact

End Program