Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

1

Please enter input text file name:

students.txt

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

2

1. Tom Wiely studen ID = 1234 GPA = 3.76

2. Mike Johnson studen ID = 1111 GPA = 2.78

3. Alex Shafer studen ID = 3333 GPA = 4.0

4. Nancy Koffman studen ID = 4444 GPA = 3.56

5. Karen Thomson studen ID = 2222 GPA = 3.2

Please choose from the following:

M. Return to main menu

N. Next screen

A. Display all

n

6. Sara Dorthy studen ID = 9999 GPA = 1.79

7. Adam Nelson studen ID = 7777 GPA = 2.7

8. Kate Peterson studen ID = 6666 GPA = 3.5

9. Carla Howard studen ID = 3325 GPA = 3.9

10. Ben Jones studen ID = 5555 GPA = 2.42

Please choose from the following:

M. Return to main menu

N. Next screen

A. Display all

a

11. Dan Fuhr studen ID = 1156 GPA = 3.97

12. David Dalton studen ID = 1564 GPA = 3.0

13. Shirley Gross studen ID = 9138 GPA = 3.8

14. Cynthia Morley studen ID = 3124 GPA = 2.66

15. Albert Roberts studen ID = 4532 GPA = 3.55

16. Amelia Pauls studen ID = 1023 GPA = 2.89

17. Samson Smith studen ID = 6134 GPA = 3.05

18. Michael Garett studen ID = 7874 GPA = 3.99

19. Melissa Downey studen ID = 8026 GPA = 3.88

20. Gabe Yu studen ID = 9893 GPA = 3.95

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

2

1. Tom Wiely studen ID = 1234 GPA = 3.76

2. Mike Johnson studen ID = 1111 GPA = 2.78

3. Alex Shafer studen ID = 3333 GPA = 4.0

4. Nancy Koffman studen ID = 4444 GPA = 3.56

5. Karen Thomson studen ID = 2222 GPA = 3.2

Please choose from the following:

M. Return to main menu

N. Next screen

A. Display all

m

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

3

Enter a database name:

database.txt

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

4

Choose from the following:

1. Entire index

2. Part of index

1

(1023 , 15)

(1111 , 1)

(1156 , 10)

(1234 , 0)

(1564 , 11)

(2222 , 4)

(3124 , 13)

(3325 , 8)

(3333 , 2)

(4444 , 3)

(4532 , 14)

(5555 , 9)

(6134 , 16)

(6666 , 7)

(7777 , 6)

(7874 , 17)

(8026 , 18)

(9138 , 12)

(9893 , 19)

(9999 , 5)

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

4

Choose from the following:

1. Entire index

2. Part of index

2

Enter ID:

4444

(4444 , 3)

(4532 , 14)

(5555 , 9)

(6134 , 16)

(6666 , 7)

(7777 , 6)

(7874 , 17)

(8026 , 18)

(9138 , 12)

(9893 , 19)

(9999 , 5)

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

5

Enter ID:

7874

Michael Garett studen ID = 7874 GPA = 3.99

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

6

Enter ID:

7874

Michael Garett studen ID = 7874 GPA = 3.99

Please choose from following:

A. Modify first name

B. Modify last name

C. Modify GPA

D. Modify all fields

a

Please enter first name:

Ahmed

Ahmed Garett studen ID = 7874 GPA = 3.99

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

5

Enter ID:

7874

Ahmed Garett studen ID = 7874 GPA = 3.99

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

6

Enter ID:

7874

Ahmed Garett studen ID = 7874 GPA = 3.99

Please choose from following:

A. Modify first name

B. Modify last name

C. Modify GPA

D. Modify all fields

b

Please enter last name:

Aldhaheri

Ahmed Aldhaheri studen ID = 7874 GPA = 3.99

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

6

Enter ID:

7874

Ahmed Aldhaheri studen ID = 7874 GPA = 3.99

Please choose from following:

A. Modify first name

B. Modify last name

C. Modify GPA

D. Modify all fields

c

Please enter student GPA:

4.0

Ahmed Aldhaheri studen ID = 7874 GPA = 4.0

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

5

Enter ID:

7874

Ahmed Aldhaheri studen ID = 7874 GPA = 4.0

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

6

Enter ID:

1234

Tom Wiely studen ID = 1234 GPA = 3.76

Please choose from following:

A. Modify first name

B. Modify last name

C. Modify GPA

D. Modify all fields

d

Please Enter first name, last name, GPA:

Moe Aldhaheri 3.89

Moe Aldhaheri studen ID = 1234 GPA = 3.89

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

5

Enter ID:

1234

Moe Aldhaheri studen ID = 1234 GPA = 3.89

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

7

Please Enter first name, last name, student ID, GPA:

Joe Smith 7574 3.89

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

2

6. Sara Dorthy studen ID = 9999 GPA = 1.79

7. Adam Nelson studen ID = 7777 GPA = 2.7

8. Kate Peterson studen ID = 6666 GPA = 3.5

9. Carla Howard studen ID = 3325 GPA = 3.9

10. Ben Jones studen ID = 5555 GPA = 2.42

Please choose from the following:

M. Return to main menu

N. Next screen

A. Display all

a

11. Dan Fuhr studen ID = 1156 GPA = 3.97

12. David Dalton studen ID = 1564 GPA = 3.0

13. Shirley Gross studen ID = 9138 GPA = 3.8

14. Cynthia Morley studen ID = 3124 GPA = 2.66

15. Albert Roberts studen ID = 4532 GPA = 3.55

16. Amelia Pauls studen ID = 1023 GPA = 2.89

17. Samson Smith studen ID = 6134 GPA = 3.05

18. Ahmed Aldhaheri studen ID = 7874 GPA = 4.0

19. Melissa Downey studen ID = 8026 GPA = 3.88

20. Gabe Yu studen ID = 9893 GPA = 3.95

21. Joe Smith studen ID = 7574 GPA = 3.89

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

4

Choose from the following:

1. Entire index

2. Part of index

1

(1023 , 15)

(1111 , 1)

(1156 , 10)

(1234 , 0)

(1564 , 11)

(2222 , 4)

(3124 , 13)

(3325 , 8)

(3333 , 2)

(4444 , 3)

(4532 , 14)

(5555 , 9)

(6134 , 16)

(6666 , 7)

(7574 , 20)

(7777 , 6)

(7874 , 17)

(8026 , 18)

(9138 , 12)

(9893 , 19)

(9999 , 5)

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

8

Enter ID:

8026

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

2

1. Moe Aldhaheri studen ID = 1234 GPA = 3.89

2. Mike Johnson studen ID = 1111 GPA = 2.78

3. Alex Shafer studen ID = 3333 GPA = 4.0

4. Nancy Koffman studen ID = 4444 GPA = 3.56

5. Karen Thomson studen ID = 2222 GPA = 3.2

Please choose from the following:

M. Return to main menu

N. Next screen

A. Display all

a

6. Sara Dorthy studen ID = 9999 GPA = 1.79

7. Adam Nelson studen ID = 7777 GPA = 2.7

8. Kate Peterson studen ID = 6666 GPA = 3.5

9. Carla Howard studen ID = 3325 GPA = 3.9

10. Ben Jones studen ID = 5555 GPA = 2.42

11. Dan Fuhr studen ID = 1156 GPA = 3.97

12. David Dalton studen ID = 1564 GPA = 3.0

13. Shirley Gross studen ID = 9138 GPA = 3.8

14. Cynthia Morley studen ID = 3124 GPA = 2.66

15. Albert Roberts studen ID = 4532 GPA = 3.55

16. Amelia Pauls studen ID = 1023 GPA = 2.89

17. Samson Smith studen ID = 6134 GPA = 3.05

18. Ahmed Aldhaheri studen ID = 7874 GPA = 4.0

19. Gabe Yu studen ID = 9893 GPA = 3.95

20. Joe Smith studen ID = 7574 GPA = 3.89

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

4

Choose from the following:

1. Entire index

2. Part of index

1

(1023 , 15)

(1111 , 1)

(1156 , 10)

(1234 , 0)

(1564 , 11)

(2222 , 4)

(3124 , 13)

(3325 , 8)

(3333 , 2)

(4444 , 3)

(4532 , 14)

(5555 , 9)

(6134 , 16)

(6666 , 7)

(7574 , 20)

(7777 , 6)

(7874 , 17)

(9138 , 12)

(9893 , 19)

(9999 , 5)

Please choose from the following:

1. Make a raondom-access file

2. Display a random-access file

3. Build the index

4. Display the index

5. Retrieve a record

6. Modify a record

7. Add a new record

8. Delete a record

9. Exit

9