Sample Run

Mohamed Kaid Programmer: COSC 311, W '22 Course: Project: Due date: 2-17-22 Welcome!! 1- Create a random-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 Choice:

Figure 1 Menu

Choice: 1
Cerating new Random File
Enter an Input File: students.txt
Enter an output file: dBase
Data sent to File

Figure 2 Choice 1

Choice: 2			
Enter Random Access File Name: dBase			
Display Records			
1.)Tom	Wiely	1234	3.76
2.)Mike	Johnson	1111	2.78
3.)Alex	Shafer	3333	4.0
4.)Nancy	Koffman	4444	3.56
5.)Karen	Thomson	2222	
,			
What would you like to do next:			
M: to return to main menu			
N: for next screen			
A: to display all			
Choice: a			
6.)Sara	Dorthy	9999	1.79
7.)Adam	Nelson	7777	2.7
8.)Kate	Peterson	6666	3.5
9.)Carla	Howard	3325	3.9
10.)Ben	Jones	5555	2.42
11.)Dan	Fuhr	1156	3.97
File done			

Figure 3 Choice 2

Choice: 3

Enter a database name: dBase

DONE

Figure 4 Choice 3

```
Choice: 4
Enter the starting ID or -1 for the entire index: -1
(1111,1)
(1156,10)
(1234,0)
(2222,4)
(3325,8)
(3333,2)
(4444,3)
(5555,9)
(6666,7)
(7777<sub>,</sub>6)
(9999,5)
1- Create a random-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
Choice: 4
Enter the starting ID or -1 for the entire index: 5555
(5555,9)
(6666,7)
(7777,6)
(9999,5)
```

Figure 5 Choice 4

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Choice: 5
Enter student ID: 6666
Kate Peterson 6666 3.5
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Choice: 6
Enter student ID: 6666
Kate
                                                    3.5
                     Peterson
                                         6666
1- Change the first name:
2- Change the last name:
3- Change GPA:
4- Done:
Choice: 1
Enter Student First Name:
Mohamed
1- Change the first name:
2- Change the last name:
3- Change GPA:
4- Done:
Choice: 2
Enter Student Last Name:
Kaid
1- Change the first name:
2- Change the last name:
3- Change GPA:
4- Done:
Choice: 3
Enter Student GPA:
3.6
1- Change the first name:
2- Change the last name:
3- Change GPA:
4- Done:
Choice: 4
File Modified
```

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Choice: 7
Adding a new Record
Enter New Student's First Name: Moe
Enter New Student's Last Name: Kaid
Enter Student ID: 9090
Enter Student GPA: 3.9
Student has been added
1- Create a random-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
Choice: 4
Enter the starting ID or -1 for the entire index: -1
(1111,1)
(1156, 10)
(1234,0)
(2222,4)
(3325,8)
(3333,2)
(4444,3)
(5555,9)
(6666,7)
(7777,6)
(9090,11)
(9999,5)
```

```
Choice: 8
Enter student ID: 4444
Nancy
                    Koffman
                                        4444 3.56
Record Deleted
1- Create a random-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
Choice: 4
Enter the starting ID or -1 for the entire index: -1
(1111,1)
(1156, 10)
(1234,0)
(2222,4)
(3325,8)
(3333,2)
(5555,9)
(6666,7)
(7777,6)
(9999,5)
```

Figure 9 Choice 8

1- Create a random-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
Choice: 9
Thank you!! Have a nice day

Figure 10 Choice 9