

```
D:\Ar nab\Freshworks\File-Based-Storage-cpp>g++ create.cpp insert.cpp main.cpp modify.cpp read.cpp util.cpp remove.cpp update.cpp -o main -std=c++17
D:\Ar nab\Freshworks\File-Based-Storage-cpp>.\main
```

WELCOME TO THE FILE MANAGEMENT SYSTEM

```
Enter the path of the file to be created (optional):
Enter the file name to be created (optional):  arnab.txt
```

← File creation

File is created.

Operations:

```
0.Exit
1.Insert
2.read
3.Modify
4.Delete
```

← Key-Value insertion

```
Enter your choice: 1
Enter content in order (key value time-to-live): key1 23 987
```

Operations:

```
0.Exit
1.Insert
2.read
3.Modify
4.Delete
```

← Insertion with time-to-live of 5 seconds

```
Enter your choice: 1
Enter content in order (key value time-to-live): key2 78 5
```

Operations:

```
0.Exit
1.Insert
2.read
3.Modify
4.Delete
```

← Reading a key

```
Enter your choice: 2
Enter the key to be searched: key1
key1 23
```

Operations:

```
0.Exit
1.Insert
2.read
3.Modify
4.Delete
```

← Reading key after expiry (After 5 seconds)

```
Enter your choice: 2
Enter the key to be searched: key2
key not available
```

Operations:

```
0.Exit
1.Insert
2.read
3.Modify
4.Delete
```

← Reading non-inserted key

```
Enter your choice: 2
Enter the key to be searched: key3
key not available
```

Operations:

```
0.Exit
1.Insert
2.read
3.Modify
```

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 1
Enter content in order (key value time-to-live): key4 78 9870
```

← Additional key-value insertions

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 1
Enter content in order (key value time-to-live): key5 78 9876
```

← Value modification for a chosen key

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 3
Enter the key to be modified: key4
Enter the value for the key: 90

key4 90 1606844055
```

← Deletion of a chosen key

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 2
Enter the key to be searched: key5
key5 78

Successful deletion
```

← Attempting to read a deleted key

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 2
Enter the key to be searched: key5
key not available
```

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
```