

## Experiment No. - 1.4

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**Subject Name: ADVANCED PROGRAMMING LAB**

**Subject Code: 20CSP-334**

### 1. Aim/Overview of the practical:

Write a program to maintain a elementary database of employees using files.

### 2. Task to be done:

Write a program to maintain a elementary database of employees using files.

### 3. Steps for practical:

1. Include the header files.
2. Open a file in write mode.
3. Write inputted data into the file.
4. Close the opened file.
5. Open a file in read mode.
6. write the data at the screen.
7. Again read the data from the file and display it.
8. Close the opened file.

### 4. Code:

```
#include <fstream>
#include <iostream>
using namespace std;
```

```
int main () {
```

```
char data[100];

// open a file in write mode.
ofstream outfile;
outfile.open("Employee_database.dat");

cout << "Writing to the file" << endl;
cout << "Enter your name: ";
cin.getline(data, 100);

// write inputted data into the file.
outfile << data << endl;

cout << "Writing to the file" << endl;
cout << "Enter your Employee ID: ";
cin.getline(data, 100);

// write inputted data into the file.
outfile << data << endl;

cout << "Enter your age: ";
cin >> data;
cin.ignore();
outfile << data << endl;

cout << "Enter your Salary: ";
cin >> data;
cin.ignore();
outfile << data << endl;

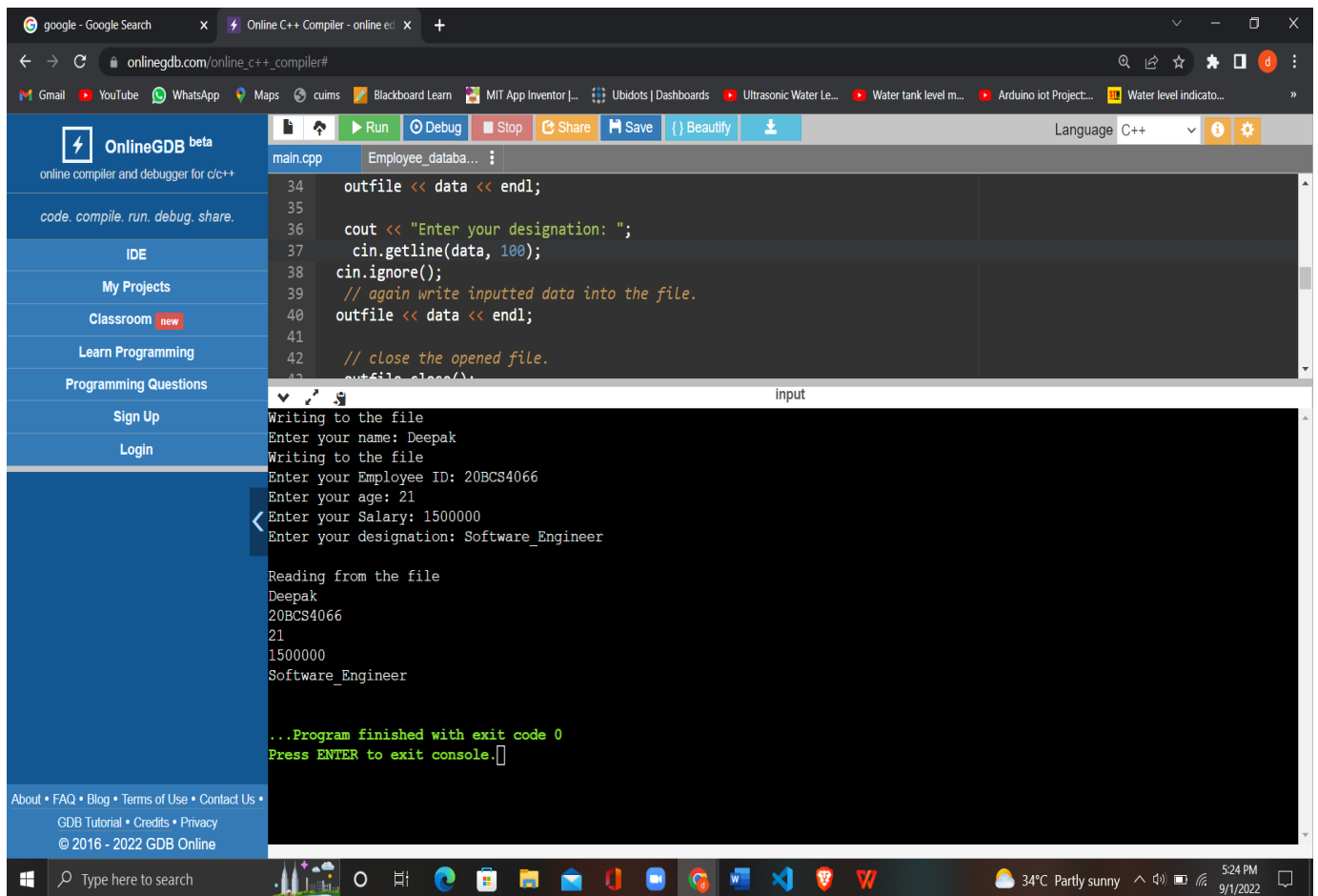
cout << "Enter your designation: ";
cin.getline(data, 100);
```

```
cin.ignore();  
// again write inputted data into the file.  
outfile << data << endl;  
  
// close the opened file.  
outfile.close();  
  
// open a file in read mode.  
ifstream infile;  
infile.open("Employee_database.dat");  
  
cout << "Reading from the file" << endl;  
infile >> data;  
  
// write the data at the screen.  
cout << data << endl;  
  
// again read the data from the file and display it.  
infile >> data;  
cout << data << endl;  
    // again read the data from the file and display it.  
infile >> data;  
cout << data << endl;  
    // again read the data from the file and display it.  
infile >> data;  
cout << data << endl;  
// again read the data from the file and display it.  
infile >> data;  
cout << data << endl;  
  
// close the opened file.  
infile.close();
```

```
return 0;  
}
```

## 5. Output:

a)



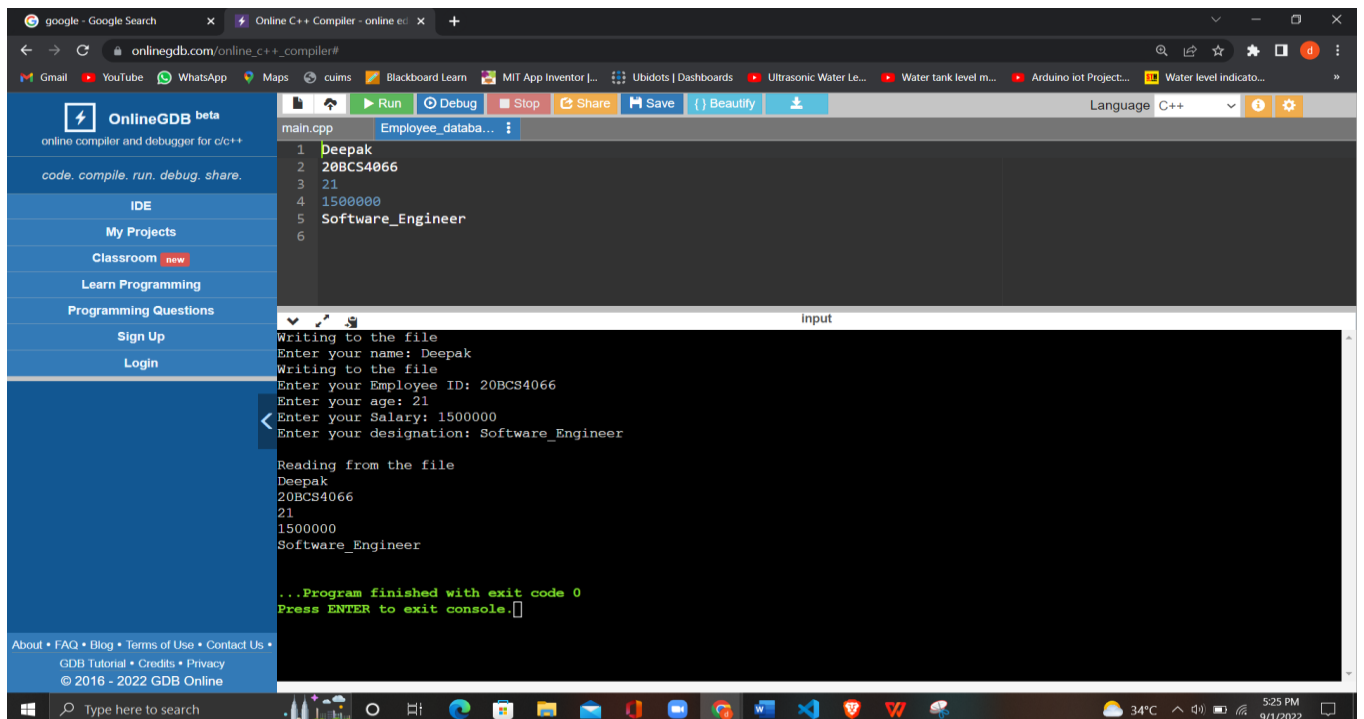
```
main.cpp Employee_databa...  
34 outfile << data << endl;  
35  
36 cout << "Enter your designation: ";  
37 cin.getline(data, 100);  
38 cin.ignore();  
39 // again write inputted data into the file.  
40 outfile << data << endl;  
41  
42 // close the opened file.  
43 outfile.close();  
44  
input  
Writing to the file  
Enter your name: Deepak  
Writing to the file  
Enter your Employee ID: 20BCS4066  
Enter your age: 21  
Enter your Salary: 1500000  
Enter your designation: Software_Engineer  
  
Reading from the file  
Deepak  
20BCS4066  
21  
1500000  
Software_Engineer  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

```
Writing to the file
Enter your name: Deepak
Writing to the file
Enter your Employee ID: 20BCS4066
Enter your age: 21
Enter your Salary: 1500000
Enter your designation: Software_Engineer

Reading from the file
Deepak
20BCS4066
21
1500000
Software_Engineer

...Program finished with exit code 0
Press ENTER to exit console.
```

b)



The screenshot shows the OnlineGDB beta IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. The main editor area displays a C++ program in main.cpp with 6 lines of code. The output console at the bottom shows the program's execution, including file writing and reading operations, and a successful exit with code 0.

```
1 Deepak
2 20BCS4066
3 21
4 1500000
5 Software_Engineer
6

Writing to the file
Enter your name: Deepak
Writing to the file
Enter your Employee ID: 20BCS4066
Enter your age: 21
Enter your Salary: 1500000
Enter your designation: Software_Engineer

Reading from the file
Deepak
20BCS4066
21
1500000
Software_Engineer

...Program finished with exit code 0
Press ENTER to exit console.
```