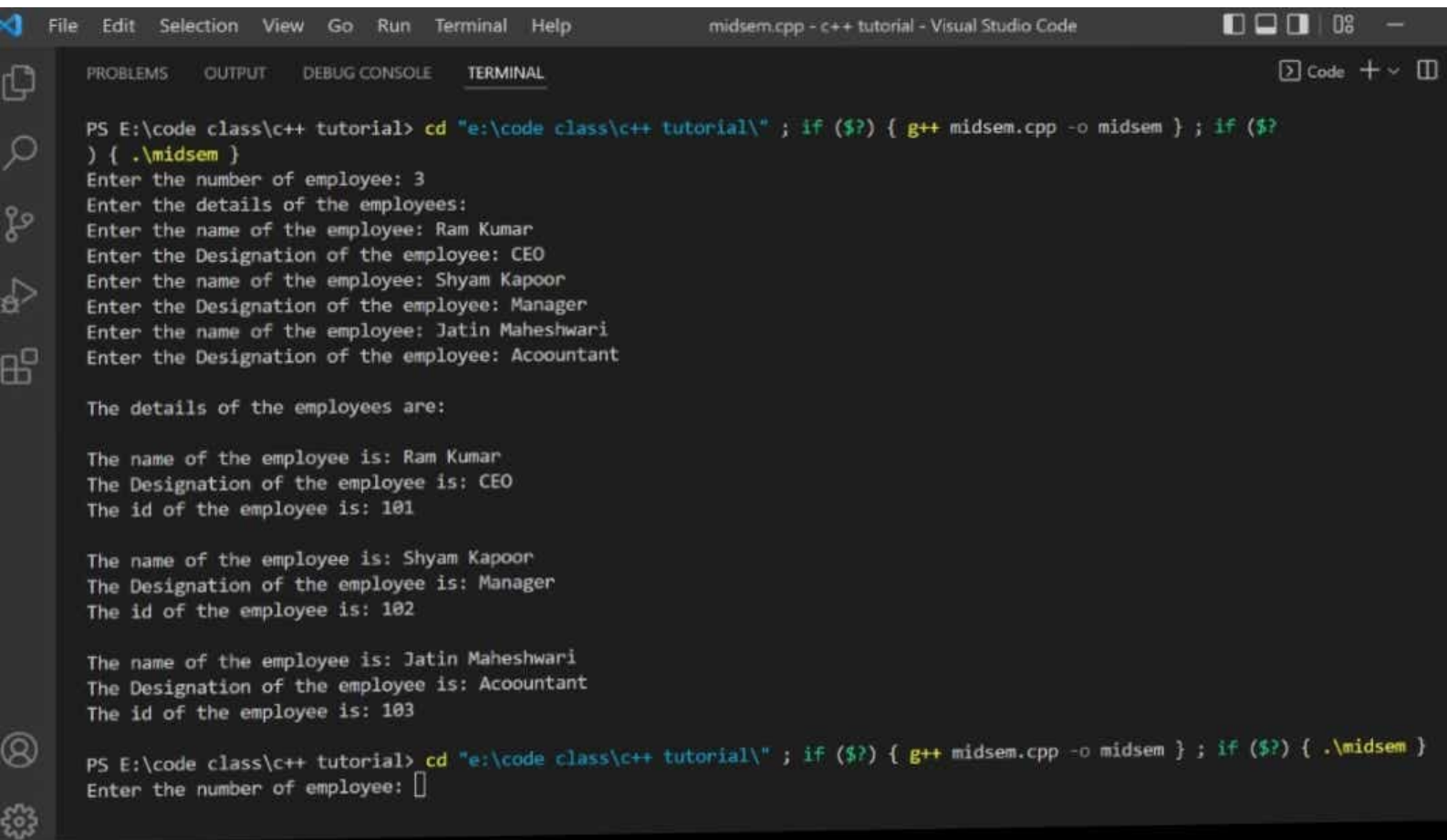


Visual Studio Code interface showing a C++ file named `midsem.cpp`. The code defines an `employee` class with static and non-static methods.

```
1  #include <iostream>
2  using namespace std;
3  class employee{
4      string name, designation;
5      int id;
6      static int empid;
7      public:
8      void set_data();
9      void get_data();
10 };
11 int employee :: empid = 100;
12 void employee :: set_data(){
13     cout<<"Enter the name of the employee: ";
14
15     getline(cin,name);
16     cout<<"Enter the Designation of the employee: ";
17     getline(cin,designation);
18
19     empid ++ ;
20     id = empid;
21 }
22 void employee :: get_data(){
23     cout<<"The name of the employee is: "<<name<<endl;
24     cout<<"The Designation of the employee is: "<<designation<<endl;
25     cout<<"The id of the employee is: "<<id<<endl;
26 }
```

```
27 int main(){
28     int num;
29     cout<<"Enter the number of employee: ";
30     cin>>num;
31     employee e[num];
32     while (getchar()!='\n');
33     cout<<"Enter the details of the employees: "<<endl;
34     for (int i=0;i<num;i++)
35     {
36         e[i].set_data();
37     }
38     cout<<endl<<"The details of the employees are: "<<endl<<endl;
39     for (int i=0;i<num;i++){
40         e[i].get_data();
41         cout<<endl;
42     }
43     return 0;
44 }
45
```



The screenshot shows the Visual Studio Code interface with the 'TERMINAL' tab active. The terminal window displays the execution of a C++ program. The program prompts the user to enter the number of employees (3), followed by the details of each employee (name and designation). It then prints the details for each employee, including their name, designation, and a unique ID.

```
File Edit Selection View Go Run Terminal Help midsem.cpp - c++ tutorial - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code + -

PS E:\code class\c++ tutorial> cd "e:\code class\c++ tutorial\" ; if ($?) { g++ midsem.cpp -o midsem } ; if ($?) { .\midsem }
Enter the number of employee: 3
Enter the details of the employees:
Enter the name of the employee: Ram Kumar
Enter the Designation of the employee: CEO
Enter the name of the employee: Shyam Kapoor
Enter the Designation of the employee: Manager
Enter the name of the employee: Jatin Maheshwari
Enter the Designation of the employee: Acoountant

The details of the employees are:

The name of the employee is: Ram Kumar
The Designation of the employee is: CEO
The id of the employee is: 101

The name of the employee is: Shyam Kapoor
The Designation of the employee is: Manager
The id of the employee is: 102

The name of the employee is: Jatin Maheshwari
The Designation of the employee is: Acoountant
The id of the employee is: 103

PS E:\code class\c++ tutorial> cd "e:\code class\c++ tutorial\" ; if ($?) { g++ midsem.cpp -o midsem } ; if ($?) { .\midsem }
Enter the number of employee: 
```