Static data member:

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

void test ()
{
static int x=1;
x=++x;
int y=1;
cout<<"x="<<x<<endl;
cout<<"y="<<y<<endl;
}
int main()
{
test();
test();
return 0;
}
```

```
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$ g++ data.cpp
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$ ./a.out
x=2
y=1
x=3
y=1
```

Static member function:

```
#include<iostream>
using namespace std;
class Example
{
static int number;
int n;

public:
void set_n()
{
n=++number;
}
void show_n()
{
cout<<"value of n=" << n << endl;
}
static void show_number()
{
cout<<"value of number=" << number << endl;
```

```
}
};
int Example :: number;
int main()
{
Example example1,example2;
example1.set_n();
example2.set_n();
example1.show_n();
example2.show_n();

Example::show_number();

return 0;

}
```

```
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$ g++ member.cpp
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$ ./a.out
value of n=1
value of n=2
value of number=2
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$
```

Inline Function:

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

inline void show()
{
        cout<<"This is demo function\n";
cout<<"This is demo function\n";
cout<<"This is demo function\n";
}

int main()
{
        cout<<"Function called first time\n";
        show();
        cout<<"Function called Second time\n";
        show();

}
```

```
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$ g++ in.cpp
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$ ./a.out
Function called first time
This is demo function
This is demo function
This is demo function
Function called Second time
This is demo function
This is demo function
This is demo function
os@os-HP-Compaq-dc7900-Small-Form-Factor:~$
```