

1.

```
1 #include <iostream>
2 using namespace std;
3 int a,b;
4 inline int add(int a,int b)
5 {
6     return a+b;
7 };
8 inline int subtract(int a,int b)
9 {
10    return a-b;
11 };
12 int main ()
13 {
14 }
15 {
16     cout <<"enter the values of a and b:" <<endl;
17     cin >> a >> b;
18     cout <<"the sum is:" <<add(a,b) <<endl;
19     cout <<"the sub is:" <<subtract(a,b) <<endl;
20 }
21
22
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavya sree\Downloads\ds lab report\oop\oop\oops31.exe
- Output Size: 1.83299827575684 MiB
- Compilation Time: 1.83s


C:\Users\kavya sree\Downloads\ds lab report\oop\oop\oops31.exe

```
enter the values of a and b:
2
3
the sum is:5
the sub is:-1

-----
Process exited after 20.04 seconds with return value 0
Press any key to continue . . .
```

2.

```
1 #include <iostream>
2 using namespace std;
3 void swapper(int m, int n) {
4     int z;
5     z = m;
6     m=n;
7     n=z;
8 }
9 int main()
10 {
11     int m = 20, n = 21;
12     cout<<"before_swap: "<<m<<" "<<n<<endl;
13     swapper(m,n);
14     cout<<"after_swap: "<<n<<" "<<m; return 0;
15 }
```

 C:\Users\kavya sree\Downloads\ds lab report\oop\oop\oops32.exe

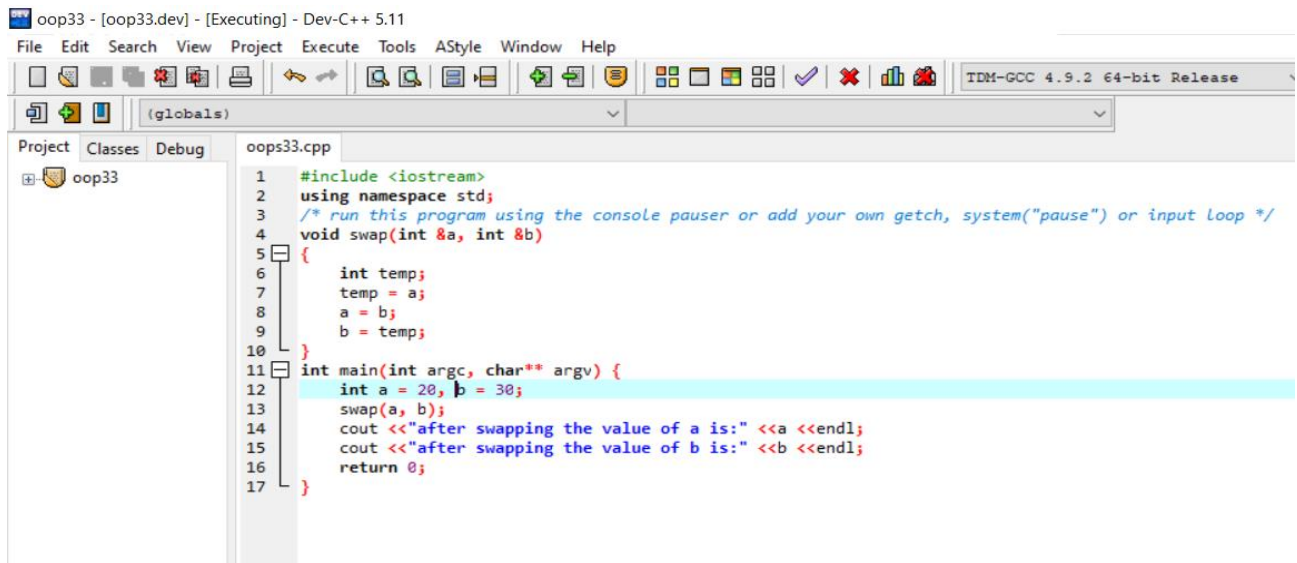
before_swap: 20,21

after_swap: 21,20


Process exited after 4.732 seconds with return value 0

Press any key to continue . . .

3.



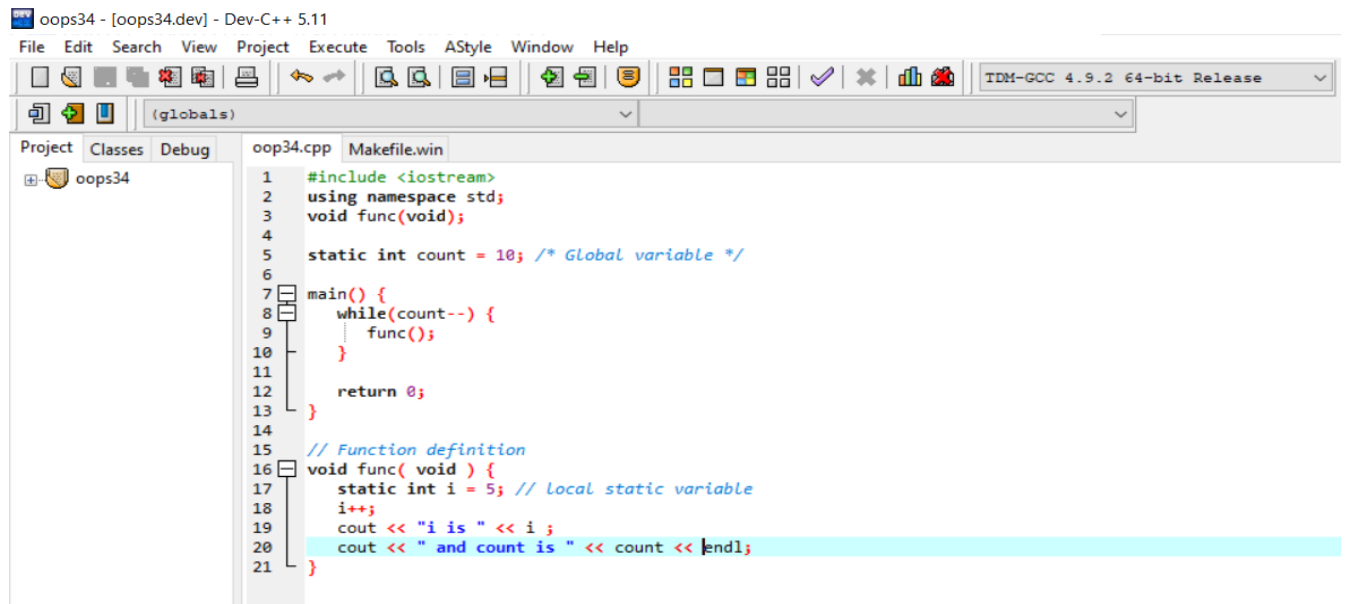
```
1  #include <iostream>
2  using namespace std;
3  /* run this program using the console pauser or add your own getch, system("pause") or input loop */
4  void swap(int &a, int &b)
5  {
6      int temp;
7      temp = a;
8      a = b;
9      b = temp;
10 }
11 int main(int argc, char** argv) {
12     int a = 20, b = 30;
13     swap(a, b);
14     cout <<"after swapping the value of a is:" <<a <<endl;
15     cout <<"after swapping the value of b is:" <<b <<endl;
16     return 0;
17 }
```

 C:\Users\kavya sree\Downloads\ds lab report\oop\oop\oop33.exe

```
after swapping the value of a is:30
after swapping the value of b is:20
```

```
-----
Process exited after 8.141 seconds with return value 0
Press any key to continue . . .
```

4.



```
1 #include <iostream>
2 using namespace std;
3 void func(void);
4
5 static int count = 10; /* Global variable */
6
7 main() {
8     while(count-->0) {
9         func();
10    }
11
12    return 0;
13 }
14
15 // Function definition
16 void func( void ) {
17     static int i = 5; // Local static variable
18     i++;
19     cout << "i is " << i ;
20     cout << " and count is " << count << endl;
21 }
```

C:\Users\kavya sree\Downloads\ds lab report\oop\oop\oops34.exe

```
i is 6 and count is 9
i is 7 and count is 8
i is 8 and count is 7
i is 9 and count is 6
i is 10 and count is 5
i is 11 and count is 4
i is 12 and count is 3
i is 13 and count is 2
i is 14 and count is 1
i is 15 and count is 0
```

```
-----
Process exited after 8.372 seconds with return value 0
Press any key to continue . . .
```