

Chapter 1

Lab 1.2.6 (1)

```
[ec2-user@ip-172-31-82-95 Lab1]$ g++ -lm -o output Lab1.cpp
[ec2-user@ip-172-31-82-95 Lab1]$ ./output
Welcome back
It's me, your first program.
[ec2-user@ip-172-31-82-95 Lab1]$
```

Lab 1.3.1 (1)

```
[ec2-user@ip-172-31-82-95 Lab2]$ g++ -lm -o output Lab2.cpp
[ec2-user@ip-172-31-82-95 Lab2]$ ./output
result: 10800
[ec2-user@ip-172-31-82-95 Lab2]$
```

Lab 1.4.2 (1)

```
[ec2-user@ip-172-31-82-95 Lab 1.4.2 (1)]$ g++ -lm -o output Lab1421.cpp
[ec2-user@ip-172-31-82-95 Lab 1.4.2 (1)]$ ./output
result: 6 expected result : 6
result: 24 expected result : 24
result: 6 expected result : 6
result: 32 expected result : 32
result: 0 expected result : 0
[ec2-user@ip-172-31-82-95 Lab 1.4.2 (1)]$
```

Lab 1.4.40 (1)

```
[ec2-user@ip-172-31-82-95 Lab 1.4.40 (1)]$ g++ -lm -o output Lab14401.cpp
[ec2-user@ip-172-31-82-95 Lab 1.4.40 (1)]$ ./output
Enter value for x: 1
y = 0.0949234[ec2-user@ip-172-31-82-95 Lab 1.4.40 (1)]$ ./output
Enter value for x: -1.5
y = 0.0890702[ec2-user@ip-172-31-82-95 Lab 1.4.40 (1)]$ ./output
Enter value for x: 12.345
y = 0.101057[ec2-user@ip-172-31-82-95 Lab 1.4.40 (1)]$ ./output
Enter value for x: 42
y = 0.101298[ec2-user@ip-172-31-82-95 Lab 1.4.40 (1)]$
```

Lab 1.4.40 (2)

```
[ec2-user@ip-172-31-82-95 Lab 1.4.40 (2)]$ g++ -lm -o output Lab14402.cpp
[ec2-user@ip-172-31-82-95 Lab 1.4.40 (2)]$ ./output
Enter i: 100
Enter j: 3
261838[ec2-user@ip-172-31-82-95 Lab 1.4.40 (2)]$ ./output
Enter i: 3
Enter j: 100
-5[ec2-user@ip-172-31-82-95 Lab 1.4.40 (2)]$ ./output
Enter i: 123
Enter j: 321
-125[ec2-user@ip-172-31-82-95 Lab 1.4.40 (2)]$ ./output
Enter i: 42
Enter j: 24
21732[ec2-user@ip-172-31-82-95 Lab 1.4.40 (2)]$ █
```

Lab 1.6.11 (1)

```
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ g++ -lm -o output Lab16111.cpp
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: -2
THAT'S NOT TRUE :(
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: 0
THAT'S TRUE :)
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ 4
-bash: 4: command not found
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: 4
THAT'S TRUE :)
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: 10
THAT'S TRUE :)
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: 22
THAT'S NOT TRUE :(
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: 100
THAT'S NOT TRUE :(
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: 111
THAT'S TRUE :)
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ ./output
Enter a value: 42
THAT'S NOT TRUE :(
[ec2-user@ip-172-31-82-95 Lab 1.6.11 (1)]$ █
```

Lab 1.7.3 (1)

```
[ec2-user@ip-172-31-82-95 Lab 1.7.3 (1)]$ g++ -lm -o output Lab1731.cpp
[ec2-user@ip-172-31-82-95 Lab 1.7.3 (1)]$ ./output
2.3
2.30
2.123456
2.12
2
[ec2-user@ip-172-31-82-95 Lab 1.7.3 (1)]$ █
```

Lab 1.7.4 (2)

```
[ec2-user@ip-172-31-82-95 Lab 1.7.4 (2)]$ g++ -lm -o output Lab1742.cpp
[ec2-user@ip-172-31-82-95 Lab 1.7.4 (2)]$ ./output
x:1
y:1
Results are equal (by 0.000001 epsilon)
[ec2-user@ip-172-31-82-95 Lab 1.7.4 (2)]$
[ec2-user@ip-172-31-82-95 Lab 1.7.4 (2)]$ ./output
x:1011
y:1112
Results are not equal (by 0.000001 epsilon)
[ec2-user@ip-172-31-82-95 Lab 1.7.4 (2)]$ ./output
x:42
y:42
Results are equal (by 0.000001 epsilon)
[ec2-user@ip-172-31-82-95 Lab 1.7.4 (2)]$
```

Lab 1.7.5 (3)

```
[ec2-user@ip-172-31-82-95 Lab 1.7.5 (3)]$ g++ -lm -o output Lab1753.cpp
[ec2-user@ip-172-31-82-95 Lab 1.7.5 (3)]$ ./output
Input first octet:4
Input second octet:2
Input third octet:255
Input fourth octet:212
IP:4.2.255.212
[ec2-user@ip-172-31-82-95 Lab 1.7.5 (3)]$ ./output
Input first octet:4
Input second octet:1
Input third octet:2
Input fourth octet:3
IP:4.1.2.3
[ec2-user@ip-172-31-82-95 Lab 1.7.5 (3)]$ ./output
Input first octet:10
Input second octet:0
number must be in the range from 1 to 255[ec2-user@ip-172-31-82-95 Lab 1.7.5 (3)]$
```