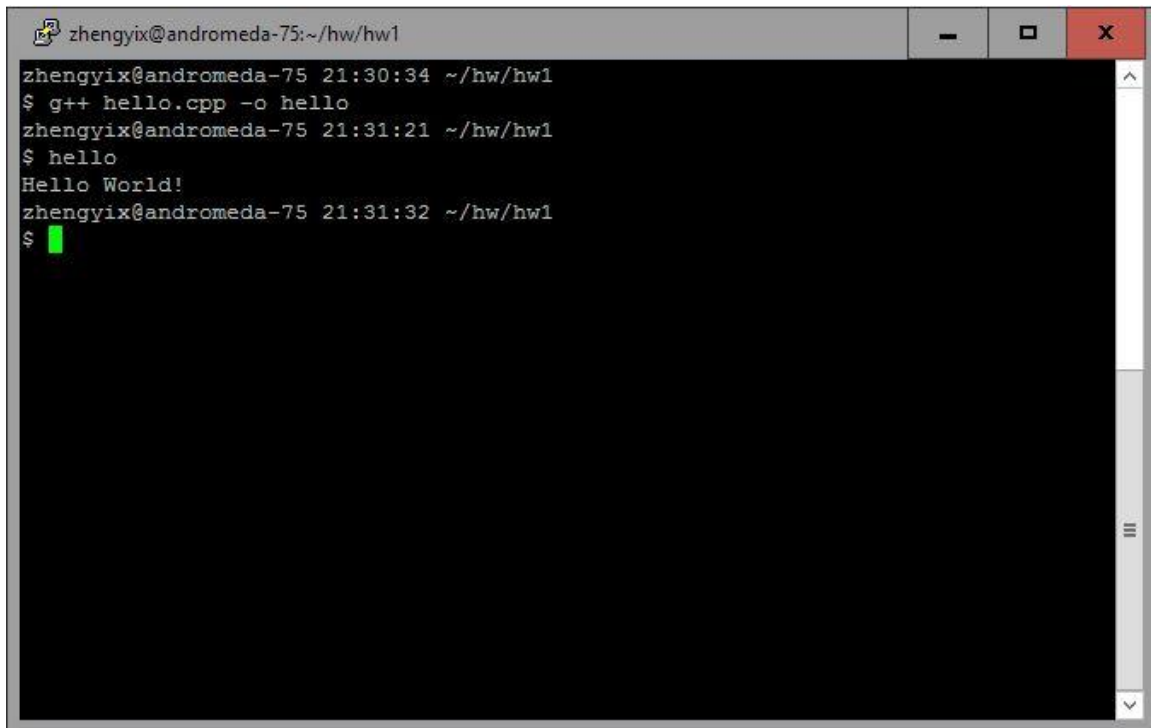
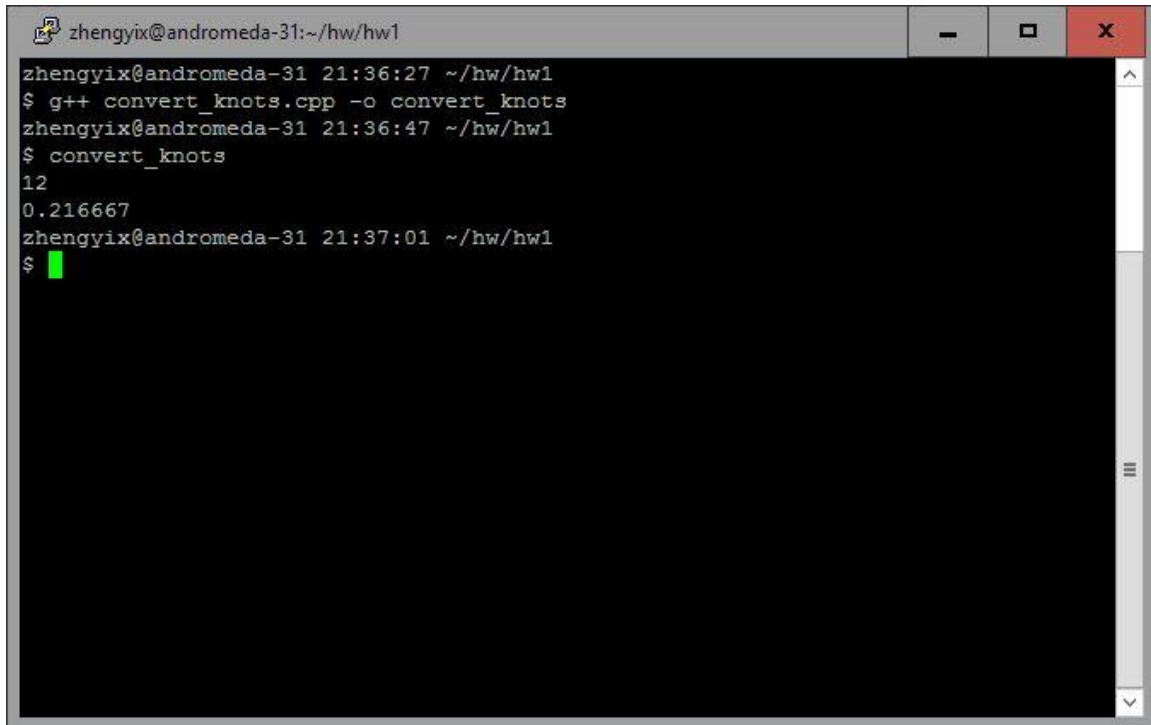


### Problem 1

A terminal window titled 'zhengyix@andromeda-75:~/hw/hw1' with standard window controls. The terminal shows the compilation of 'hello.cpp' to 'hello' and its execution, which outputs 'Hello World!'.

```
zhengyix@andromeda-75 21:30:34 ~/hw/hw1
$ g++ hello.cpp -o hello
zhengyix@andromeda-75 21:31:21 ~/hw/hw1
$ hello
Hello World!
zhengyix@andromeda-75 21:31:32 ~/hw/hw1
$
```

### Problem 2

A terminal window titled 'zhengyix@andromeda-31:~/hw/hw1' with standard window controls. The terminal shows the compilation of 'convert\_knots.cpp' to 'convert\_knots' and its execution, which outputs '12' and '0.216667'.

```
zhengyix@andromeda-31 21:36:27 ~/hw/hw1
$ g++ convert_knots.cpp -o convert_knots
zhengyix@andromeda-31 21:36:47 ~/hw/hw1
$ convert_knots
12
0.216667
zhengyix@andromeda-31 21:37:01 ~/hw/hw1
$
```

### Problem 3

```
zhengyix@andromeda-31:~/hw/hw1
$ g++ stack.h test_stack.cpp -o test_stack
zhengyix@andromeda-31 21:38:32 ~/hw/hw1
$ test_stack
hello
o
l
l
e
h
world
d
l
r
o
w
zhengyix@andromeda-31 21:38:58 ~/hw/hw1
$
```