// Fifth.cc

```
#include "ns3/core-module.h"
#include "ns3/network-module.h"
#include "ns3/csma-module.h"
#include "ns3/applications-module.h"
#include "ns3/internet-apps-module.h"
#include "ns3/internet-module.h"
#include "ns3/netanim-module.h"
using namespace ns3;
int
main ()
{
 std::string animFile="fifth.xml";
  NodeContainer nodes;
  nodes.Create (3);
  CsmaHelper csma;
  csma.SetChannelAttribute ("DataRate", DataRateValue
(DataRate (5000000)));
  csma.SetChannelAttribute ("Delay", TimeValue
(MilliSeconds (2)));
  NetDeviceContainer devs = csma.Install (nodes);
```

```
InternetStackHelper ipStack;
 ipStack.Install (nodes);
 Ipv4AddressHelper ip;
 ip.SetBase ("10.0.1.0", "255.255.255.0");
 Ipv4InterfaceContainer interface = ip.Assign (devs);
 V4PingHelper ping = V4PingHelper
(interface.GetAddress (2));
 NodeContainer pingers;
 pingers.Add (nodes.Get (0));
 pingers.Add (nodes.Get (1));
 ApplicationContainer apps = ping.Install (pingers);
 apps.Start (Seconds (2.0));
 apps.Stop (Seconds (5.0));
 csma.EnablePcapAll ("csma-ping", true);
  AnimationInterface anim(animFile);
 anim.SetConstantPosition(nodes.Get(0),10.0,60.0);
 anim.SetConstantPosition(nodes.Get(1),10.0,100.0);
 anim.SetConstantPosition(nodes.Get(2),50.0,60.0);
```

```
Simulator::Run ();
Simulator::Destroy ();
}
```

Output:

```
student@islo8-27:-/ns-allinone-3.33/ns-3.33$ ./waf --run scratch/fifth.cc

Waf: Entering directory /home/student/ns-allinone-3.33/ns-3.33/build'

[2848/2897] Compiling scratch/fifth.cc

[2858/2897] Linking build/scratch/fifth

Waf: Leaving directory '/home/student/ns-allinone-3.33/ns-3.33/build'

Build commands will be stored in build/compile_commands.json

'build' finished successfully (2.991s)

AnimationInterface WARNING:Node:0 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:1 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:0 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:1 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:2 Does not have a mobility model. Use SetConstantPosition if it is stationary
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```