

```

1 import sys, Ice
2 import Demo
3
4 class PrinterI(Demo.Printer):
5     def __init__(self, t):
6         self.t = t
7
8     def printString(self, s, current=None):
9         print(self.t, s)
10
11 communicator = Ice.initialize(sys.argv)
12
13 adapter = communicator.createObjectAdapterWithEndpoints("SimpleAdapter", "default -p 11000")
14 object1 = PrinterI("Object1 says:")
15 object2 = PrinterI("Object2 says:")
16 adapter.add(object1, communicator.stringToIdentity("SimplePrinter1"))
17 adapter.add(object2, communicator.stringToIdentity("SimplePrinter2"))
18 adapter.activate()
19
20 communicator.waitForShutdown()

```

(a)

```

1 import sys, Ice
2 import Demo
3
4 communicator = Ice.initialize(sys.argv)
5
6 base1 = communicator.stringToProxy("SimplePrinter1:default -p 11000")
7 base2 = communicator.stringToProxy("SimplePrinter2:default -p 11000")
8 printer1 = Demo.PrinterPrx.checkedCast(base1)
9 printer2 = Demo.PrinterPrx.checkedCast(base2)
10 if (not printer1) or (not printer2):
11     raise RuntimeError("Invalid proxy")
12
13 printer1.printString("Hello World from printer1!")
14 printer2.printString("Hello World from printer2!")
15
16 communicator.waitForShutdown()

```

(b)