Program 1B Report

Screen Shots

Output for: PingPong abc 100 & PingPong xyz 100 & PingPong 123 100 &

```
● [nithis13@csslab11 Program1b]$ javac Shell.java
○ [nithis13@csslab11 Program1b]$ java Boot
  threadOS ver 2.0:
  Type ? for help
  threadOS: a new thread (thread=Thread[Thread-3,2,main] tid=0 pid=-1)
  -->l Shell
  l Shell
  threadOS: a new thread (thread=Thread[Thread-5,2,main] tid=1 pid=0)
  shell[1]% PingPong abc 100 & PingPong xyz 100 & PingPong 123 100 &
  threadOS: a new thread (thread=Thread[Thread-7,2,main] tid=2 pid=1)
  threadOS: a new thread (thread=Thread[Thread-9,2,main] tid=3 pid=1)
  threadOS: a new thread (thread=Thread[Thread-11,2,main] tid=4 pid=1)
  abc abc abc abc abc abc abc abc abc abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz
  abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123
  xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc
  123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz
  abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123
  xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc
  123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz
  abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123
  xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc 123 xyz abc
  123 xyz abc 123 xyz abc 123 xyz abc 123 xyz
  123 xyz 123 xyz 123 xyz 123 xyz 123 xyz 123 xyz 123 xyz 123 xyz 123 xyz 123
  123 123 123 123 123 123 123 123 123
  shell[2]% ▮
```

Output for: PingPong abc 100 ; PingPong xyz 100 ; PingPong 123 100 ;

```
shell[2]% PingPong abc 100 ; PingPong xyz 100 ; PingPong 123 100 ;
threadOS: a new thread (thread=Thread[Thread-13,2,main] tid=5 pid=1)
abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc
abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc
abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc
abc abc abc abc abc abc abc abc abc abc abc abc abc
threadOS: a new thread (thread=Thread[Thread-15,2,main] tid=6 pid=1)
xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz
xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz
xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz
xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz
threadOS: a new thread (thread=Thread[Thread-17,2,main] tid=7 pid=1)
123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123
123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123
123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123
123 123 123 123 123 123 123 123 123 123 123 123 123
shell[3]% ▮
```

Output for: Each command can accept an arbitrary number of arguments

PingPong abc 100 & PingPong xyz 100 ; PingPong 123 50

```
● [nithis13@csslab11 Program1b]$ javac Shell.java
○ [nithis13@csslab11 Program1b]$ java Boot
  threadOS ver 2.0:
  Type ? for help
  threadOS: a new thread (thread=Thread[Thread-3,2,main] tid=0 pid=-1)
  -->l Shell
  l Shell
  threadOS: a new thread (thread=Thread[Thread-5,2,main] tid=1 pid=0)
  shell[1]% PingPong abc 100 & PingPong xyz 100 ; PingPong 123 50
  threadOS: a new thread (thread=Thread[Thread-7,2,main] tid=2 pid=1)
  threadOS: a new thread (thread=Thread[Thread-9,2,main] tid=3 pid=1)
  abc abc abc abc abc abc abc abc abc abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc
  xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc
  xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc
  xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc
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  xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz abc xyz
  xyz xyz xyz xyz xyz xyz xyz xyz xyz
  threadOS: a new thread (thread=Thread[Thread-11,2,main] tid=4 pid=1)
  123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123
  123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123
  123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123
  123 123 123 123 123 123 123 123 123 123 123 123 123 123 123
  shell[2]% []
```

PingPong abc 100 ; PingPong xyz 100 & PingPong 123 50

```
● [nithis13@csslab11 Program1b]$ javac Shell.java
○ [nithis13@csslab11 Program1b]$ java Boot
  threadOS ver 2.0:
  Type ? for help
  threadOS: a new thread (thread=Thread[Thread-3,2,main] tid=0 pid=-1)
  -->l Shell
  l Shell
  threadOS: a new thread (thread=Thread[Thread-5,2,main] tid=1 pid=0)
  shell[1]% PingPong abc 100 ; PingPong xyz 100 & PingPong 123 50
  threadOS: a new thread (thread=Thread[Thread-7,2,main] tid=2 pid=1)
  abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc
  abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc
  abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc
  abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc abc
  threadOS: a new thread (thread=Thread[Thread-9,2,main] tid=3 pid=1)
  threadOS: a new thread (thread=Thread[Thread-11,2,main] tid=4 pid=1)
  xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz 123 xyz 123 123 xyz 123 123 xyz 123 123 xyz 123
  123 xyz 123 123 xyz 123 123 xyz 123 123 xyz 123 xyz 123 123 xyz 123 123 xyz 123 123 xyz
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  xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz xyz
  shell[2]% ▮
```