



The screenshot shows a terminal window on a Linux desktop environment. The terminal title is "rvu@rvu-OptiPlex-SFF-7020: ~/shrihan". The window has a dark theme with a light-colored terminal area. The terminal output is as follows:

```
Feb 17 15:57
rvu@rvu-OptiPlex-SFF-7020:~/shrihan
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ jobs
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ fg % 1
bash: fg: %: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ fg%1
fg%1: command not found
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano pro.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ bash pro.sh
Parent PID:8839
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ fg % 1
bash: fg: %: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano pro.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano background_task.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano background_task.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ chmod +x background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ ./background.sh
Background task started
Process ID:9033
Running... count=1
Running... count=2
Running... count=3
Running... count=4
Running... count=5
Running... count=6
Running... count=7
Running... count=8
Running... count=9
Running... count=10
Running... count=11
^Z
[1]+ Stopped ./background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano p.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ fg % 1
./background.sh
Running... count=12
```

**fg %1** → Brings **job number 1** (shown by the `jobs` command) from the background to the foreground, so it runs in your current terminal.

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```
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ chmod +x background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ ./background.sh
Background task started
Process ID:9033
Running... count=1
Running... count=2
Running... count=3
Running... count=4
Running... count=5
Running... count=6
Running... count=7
Running... count=8
Running... count=9
Running... count=10
Running... count=11
^Z
[1]+ Stopped                  ./background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ nano p.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ fg % 1
./background.sh
Running... count=12
Running... count=13
Running... count=14
^Z
[1]+ Stopped                  ./background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ jobs
[1]+ Stopped                  ./background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ fg % 1
./background.sh
Running... count=15
^Z
[1]+ Stopped                  ./background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$
```

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```
GNU nano 7.2
GNU nano 7.2
rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ background.sh
background.sh
#!/bin/bash
echo "Background task started"
echo "Process ID:$$"
count=1
while true
do
    echo "Running... count=$count"
    count=$((count+1))
    sleep 5
done
```

This Bash script runs an **infinite loop** that:

The screenshot shows a Linux desktop environment with a dark theme. A terminal window is open at the bottom, displaying command-line history and output. Above it, a nano editor window titled "p.sh" contains a shell script. The script demonstrates process control, including spawning a long-running process, listing jobs, and providing instructions for interacting with the background process.

```
Feb 17 16:01
r vu@rvu-OptiPlex-SFF-7020:~/shrihan
GNU nano 7.2
#!/bin/bash
echo "Process Control Demonstration"
echo "Parent Shell PID: $$"
echo "Starting a long-running process (sleep 100)..
sleep 100 &
PID1=$!
echo "Process started with PID: $PID1"
echo "Current Jobs:"
jobs
>-
echo "Now you can:"
echo "1. Use 'fg%1' to bring it to foreground"
echo "2. Press Ctrl+Z to suspend"
echo "3.use'bg%1'to renuse the background"
echo "4.use 'kill$PID1'to terminate"
wait

[ Read 15 lines ]
^G Help      ^O Write Out    ^W Where Is      ^K Cut        ^T Execute     ^C Location    M-U Undo
^X Exit      ^R Read File    ^\ Replace       ^U Paste       ^J Justify     ^/ Go To Line   M-E Redo
M-A Set Mark M-G Copy      M-J To Bracket M-Q Where Was

(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ jobs
[1]-  Stopped                  ./background.sh
[2]+  Stopped                  ./background.sh
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ ps -f | grep background
rvu      9033  8779  0 15:54 pts/0    00:00:00 /bin/bash ./background.sh
rvu      9767  8779  0 16:01 pts/0    00:00:00 /bin/bash ./background.sh
rvu      9792  8779  0 16:02 pts/0    00:00:00 grep --color=auto background
(base) rvu@rvu-OptiPlex-SFF-7020:~/shrihan$ fg % 1
./background.sh
Running... count=3
Running... count=4
Running... count=5
```

Prints "**Background task started**" and its own **process ID (\$\$)**.

Then repeatedly prints "**Running... count=N**" every 5 seconds, where **N** increments by 1 each time.

It never ends unless manually stopped.