



RIPHAH INTERNATIONAL UNIVERSITY

lab#7

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Course: OPERSTING SYSTEM



LAB EXERCISE:

GIT installation Command.

```
ahmedaziz55223@Ubuntu:~$ sudo apt install git -y
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is held by process 4777 (aptd)
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is held by process 4777 (aptd)
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is held by process 4777 (aptd)
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Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is held by process 4777 (aptd)
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is held by process 4777 (aptd)
^Citing for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is held by process 4777 (aptd)... 12s
ahmedaziz55223@Ubuntu:~$ sudo rm -f /var/lib/dpkg/lock-frontend
ahmedaziz55223@Ubuntu:~$ sudo rm -f /var/lib/dpkg/lock
ahmedaziz55223@Ubuntu:~$ sudo rm -f /var/cache/apt/archives/lock
ahmedaziz55223@Ubuntu:~$ sudo apt install git -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
```

```
ahmedaziz55223@Ubuntu:~$ which git
/usr/bin/git
ahmedaziz55223@Ubuntu:~$ git --version
git version 2.34.1
ahmedaziz55223@Ubuntu:~$
```

UPGRADE GIT:

```
root@Ubuntu:/home/ahmedaziz55223# sudo apt update
Hit:1 http://pk.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://pk.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://pk.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@Ubuntu:/home/ahmedaziz55223# sudo apt upgrade git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.15).
Calculating upgrade... Done
The following packages were automatically installed and are no longer required:
  linux-headers-6.8.0-78-generic linux-hwe-6.8-headers-6.8.0-78 linux-hwe-6.8-tools-6.8.0-78 linux-image-6.8.0-78-generic
  linux-modules-6.8.0-78-generic linux-modules-extra-6.8.0-78-generic linux-tools-6.8.0-78-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@Ubuntu:/home/ahmedaziz55223#
```

EXERCISE:

```
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ nano task2.java
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ javac task2.java
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ java task2.java
error: class found on application class path: task2
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ java task2
Enter the first Number: 45
Enter the Second Number: 21

Largest = 45
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ cat task2.java
import java.util.Scanner;

public class task2
{
public static void main(String[] args)
{
int numberOne,numberTwo,largest;
Scanner scan = new Scanner(System.in);

System.out.print("Enter the first Number: ");
numberOne = scan.nextInt();
System.out.print("Enter the Second Number: ");
numberTwo= scan.nextInt();
if(numberOne>numberTwo)
largest=numberOne;
else
largest=numberTwo;
System.out.println("\nLargest = " +largest);
}
}
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$
```

C program having infinite loop:

```
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ nano infinite.c
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ gcc infinite.c -o infinite
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ ./infinite
process id: 14836
RUNNING...=0
  RUNNING...=1
  RUNNING...=2
  RUNNING...=3
  RUNNING...=4
  RUNNING...=5
  RUNNING...=6
  RUNNING...=7
^C
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$
```

Killing command:

```
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ ps -u $USER
```

PID	TTY	TIME	CMD
2261	?	00:00:02	systemd
2262	?	00:00:00	(sd-pam)
2268	?	00:00:00	pipewire
2269	?	00:00:00	pipewire-media-
2270	?	00:00:01	pulseaudio
2271	?	00:00:02	snapd-desktop-i
2278	?	00:00:00	gnome-keyring-d
2291	tty2	00:00:00	gdm-wayland-ses
2292	?	00:00:03	dbus-daemon
2296	tty2	00:00:00	gnome-session-b
2332	?	00:00:00	xdg-document-po
2335	?	00:00:00	xdg-permission-
2365	?	00:00:00	gnome-session-c
2377	?	00:00:00	gvfsd

```
4168 pts/0 00:00:00 bash
4727 ? 00:00:55 update-manager
14845 pts/0 00:00:00 infinite
14846 pts/2 00:00:00 bash
14853 pts/2 00:00:00 ps
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ kill -9 14845
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$
```

```
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$ ./infinite
```

```
process id: 14845
```

```
Files G...=0
```

```
RUNNING...=1
```

```
RUNNING...=2
```

```
RUNNING...=3
```

```
RUNNING...=4
```

```
RUNNING...=5
```

```
RUNNING...=6
```

```
RUNNING...=7
```

```
RUNNING...=8
```

```
RUNNING...=9
```

```
RUNNING...=10
```

```
RUNNING...=11
```

```
RUNNING...=12
```

```
RUNNING...=13
```

```
RUNNING...=14
```

```
RUNNING...=15
```

```
RUNNING...=16
```

```
RUNNING...=17
```

```
RUNNING...=18
```

```
RUNNING...=19
```

```
RUNNING...=20
```

```
RUNNING...=21
```

```
RUNNING...=22
```

```
RUNNING...=23
```

```
RUNNING...=24
```

```
RUNNING...=25
```

```
RUNNING...=26
```

```
RUNNING...=27
```

```
RUNNING...=28
```

```
RUNNING...=29
```

```
RUNNING...=30
```

```
Killed
```

```
ahmedaziz55223@Ubuntu:~/RIPHAH/lab07$
```

