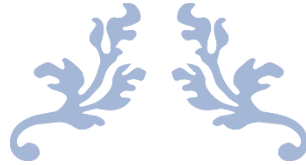# RIPHAH
INTERNATIONAL UNIVERSITY

LAB 7

Name   : Muhammad Hammad
Sap id   : 56765
Course : Operating System
Section: SE 5-2

Presented to :

Sir. Shehzad Ahmed

<mark>Exercise:</mark>
To check which version of yum is installed. press following command
Cmd: yum   --version

- **After running that cmd , "cmd not found"**

to get and install yum we will use following command.

- **apt-get   install   yum**

```
hammad56765@Ubuntu:~$ apt-get install yum
E: Could not open lock file /var/lib/dpkg/lock-frontend - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are you root?
root@Ubuntu:/home/hammad56765# apt update
Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
282 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@Ubuntu:/home/hammad56765# apt get install yum
E: Invalid operation get
root@Ubuntu:/home/hammad56765# apt-get install yum
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package yum
root@Ubuntu:/home/hammad56765# yum --version
Command 'yum' not found, did you mean:
  command 'gum' from snap gum (0.13.0)
  command 'sum' from deb coreutils (8.32-4.1ubuntu1.2)
  command 'yum4' from deb nextgen-yum4 (4.5.2-6)
  command 'zum' from deb perforate (1.2-5.1)
  command 'uum' from deb freewnn-jserver (1.1.1~a021+cvs20130302-7build1)
  command 'num' from deb quickcal (2.4-1)
```

- <mark>Yum is not installed</mark>

- ■ **Then,I installing the git :**

```
root@Ubuntu:/home/hammad56765# apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libreoffice-ogltrans
Use 'apt autoremove' to remove it.
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb
  git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 282 not upgraded.
Need to get 4,147 kB of archives.
After this operation, 21.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 liberror-perl all 0.17029-1 [26.5 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git-man all 1:2.34.1-1ubuntu1.15 [955 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-1ubuntu1.15 [3,166 kB]
Fetched 4,147 kB in 25s (165 kB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 169130 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...
```

- ■ **To check the git version :**

```
root@Ubuntu:/home/hammad56765# apt show git
Package: git
Version: 1:2.34.1-1ubuntu1.15
Priority: optional
Section: vcs
Origin: Ubuntu
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
Original-Maintainer: Jonathan Nieder <jrnieder@gmail.com>
Bugs: https://bugs.launchpad.net/ubuntu/+filebug
Installed-Size: 18.9 MB
```

- ■ **Location of git :**

```
root@Ubuntu:/home/hammad56765# which git
/usr/bin/git
root@Ubuntu:/home/hammad56765# apt update
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

- **Update the git**

```
root@Ubuntu:/home/hammad56765# 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 NEW packages will be installed:
The following NEW packages will be installed:
  libtraceevent1 linux-headers-6.8.0-85-generic linux-hwe-6.8-headers-6.8.0-85
  linux-hwe-6.8-tools-6.8.0-85 linux-image-6.8.0-85-generic
  linux-modules-6.8.0-85-generic linux-modules-extra-6.8.0-85-generic
  linux-tools-6.8.0-85-generic
The following packages will be upgraded:
  alsa-ucm-conf amd64-microcode apparmor apport apport-gtk apt apt-utils
  bind9-dnsutils bind9-host bind9-libs bluez bluez-cups bluez-obexd bubblewrap
  ca-certificates cups cups-browsed cups-bsd cups-client cups-common
  cups-core-drivers cups-daemon cups-filters cups-filters-core-drivers
  cups-ipp-utils cups-ppdc cups-server-common dconf-cli
  dconf-gsettings-backend dconf-service dirmngr distro-info-data dmidecode
  dmsetup dns-root-data fonts-noto-color-emoji fonts-opensymbol
  gir1.2-gdkpixbuf-2.0 gir1.2-gst-plugins-base-1.0 gir1.2-gstreamer-1.0
  gir1.2-harfbuzz-0.0 gir1.2-javascriptcoregtk-4.0 gir1.2-mutter-10
  gir1.2-nm-1.0 gir1.2-packagekitglib-1.0 gir1.2-soup-2.4 gir1.2-udisks-2.0
  gir1.2-webkit2-4.0 gjs gnome-control-center gnome-control-center-data
  gnome-control-center-faces gnome-shell gnome-shell-common
  gnome-shell-extension-ubuntu-dock gnupg gnupg-l10n gnupg-utils gpg gpg-agent
  gpg-wks-client gpg-wks-server gpgconf gpgsm gpgv grub-efi-amd64-bin
  grub-efi-amd64-signed gstreamer1.0-alsa gstreamer1.0-gl gstreamer1.0-gtk3
  gstreamer1.0-packagekit gstreamer1.0-plugins-base
  gstreamer1.0-plugins-base-apps gstreamer1.0-plugins-good
  gstreamer1.0-pulseaudio gstreamer1.0-tools gstreamer1.0-x initramfs-tools
  initramfs-tools-bin initramfs-tools-core intel-microcode iputils-ping
```

o   The git is successfully updated .

- Then , I create a file of C program in which get a number from user and tell whether is even or odd !


```
hammad56765@Ubuntu:~$ ls
Desktop      fstudents.txt  lab06  Pictures       RIPHAH    student.txt  Templates
Documents    lab04          Music  pstudent.txt   snap      task1        Videos
Downloads    lab05          os     Public         student   task1.c
hammad56765@Ubuntu:~$ touch task1.c
hammad56765@Ubuntu:~$ cat>task1.c
#inlcude<studio.h>
int main() {
int num;
printf("Enter a number: ");
scanf("%d",&num);

if(num % 2 ==0) {
printf("%d is even.\n",num);
}
else {
printf("%d is odd.\n",num);
}
return 0;
}
hammad56765@Ubuntu:~$ gcc task1.c -o task1
task1.c:1:2: error: invalid preprocessing directive #inlcude; did you mean #include?
    1 | #inlcude<studio.h>
```

Output:

```
hammad56765@Ubuntu:~$ gcc task1.c -o task1
hammad56765@Ubuntu:~$ ./task1
Enter a number :8
Even number
```

- **Check the java version :**

```
hammad56765@Ubuntu:~$ java -version
openjdk version "11.0.28" 2025-07-15
OpenJDK Runtime Environment (build 11.0.28+6-post-Ubuntu-1ubuntu122.04.1)
OpenJDK 64-Bit Server VM (build 11.0.28+6-post-Ubuntu-1ubuntu122.04.1, mixed mode, sharing
)
hammad56765@Ubuntu:~$ touch task1.java
hammad56765@Ubuntu:~$ cat>task1.java
import java.util.Scanner;

public class CodesCracker
{
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 =number Two;
Sytsem.out.println("\nLargest = " +largest);
}
}
hammad56765@Ubuntu:~$ java task1.java -o task1
task1.java:19: error: package Sytsem does not exist
Sytsem.out.println("\nLargest = " +largest);
        ^
1 error
error: compilation failed
```

```
hammad56765@Ubuntu:~$ java task1.java -o task1
Enter the First Number: 8
Enter the Second number: 9

Largest = 9
hammad56765@Ubuntu:~$
```

- Run the infinite loop :


```
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
Running infinite loop....1
```

```
hammad56765@Ubuntu:~$ ps -u $USER
  PID TTY          TIME CMD
  768 ?        00:00:01 systemd
  771 ?        00:00:00 (sd-pam)
  801 ?        00:00:00 pipewire
  803 ?        00:00:00 pipewire-media-
  805 ?        00:00:02 pulseaudio
  817 ?        00:00:00 gnome-keyring-d
  819 ?        00:00:03 dbus-daemon
  827 tty2     00:00:00 gdm-wayland-ses
  831 tty2     00:00:00 gnome-session-b
  881 ?        00:00:00 xdg-document-po
  884 ?        00:00:00 xdg-permission-
  905 ?        00:00:00 gnome-session-c
  916 ?        00:00:00 gvfsd
  924 ?        00:00:00 gvfsd-fuse
  928 ?        00:00:00 gnome-session-b
  978 ?        00:00:00 at-spi-bus-laun
  989 ?        00:02:46 gnome-shell
  991 ?        00:00:00 dbus-daemon
```

Find the id of infinite file :

- **Kill the terminal**

```
   37845 pts/3      00:00:03 infinite
   37847 pts/2      00:00:00 bash
   37856 pts/2      00:00:00 ps
hammad56765@Ubuntu:~$ kil -9 37845
Command 'kil' not found, did you mean:
  command 'kif' from snap kif (0.2.0)
  command 'cil' from deb cil (0.07.00-12)
  command 'kic' from deb kic (2.4c-1)
  command 'kile' from deb kile (4:2.9.93-2)
  command 'kig' from deb kig (4:21.12.3-0ubuntu1)
  command 'pil' from deb picolisp (21.12-2)
  command 'uil' from deb uil (2.3.8-3)
  command 'kill' from deb procps (2:3.3.17-6ubuntu2.1)
See 'snap info <snapname>' for additional versions.
hammad56765@Ubuntu:~$ kill -9 37845
hammad56765@Ubuntu:~$ 
```

```
Running infinite loop....1
Killed
hammad56765@Ubuntu:~$
```

---------------------------------**End**------------------------------------