

# **Operating Systems – OS**

Lab Task 07 (OS-007)



**Submitted by:**

Muhammad Roshaan Idrees (56177)

**Submitted to:**

Sir Shahzad Ahmed Khan

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**RIPHAH International University**

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**Faculty of Computing**

# Tasks

## Solution:

```

root@Ubuntu: /home/muhammadroshaanidrees56177
root@Ubuntu:/home/muhammadroshaanidrees56177# su
root@Ubuntu:/home/muhammadroshaanidrees56177# apt-update
apt-update: command not found
root@Ubuntu:/home/muhammadroshaanidrees56177# apt update
Hit:1 http://pk.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 https://packages.microsoft.com/repos/code stable InRelease
Hit:3 http://pk.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://pk.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:5 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/muhammadroshaanidrees56177# yum --version
Command 'yum' not found, did you mean:
  command 'gum' from snap gum (0.13.0)
  command 'uum' from deb freewnn-jserv (1.1.1~a021+cv520130302-7build1)
  command 'zum' from deb perforate (1.2-5.1)
  command 'yum4' from deb nextgen-yum4 (4.5.2-6)
  command 'sum' from deb coreutils (8.32-4.1ubuntu1.2)
  command 'num' from deb quickcal (2.4-1)
See 'snap info <snapname>' for additional versions.
root@Ubuntu:/home/muhammadroshaanidrees56177# 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/muhammadroshaanidrees56177# pwd
/home/muhammadroshaanidrees56177
root@Ubuntu:/home/muhammadroshaanidrees56177# apt-get install git
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.15).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@Ubuntu:/home/muhammadroshaanidrees56177#

```

```

root@Ubuntu: /home/muhammadroshaanidrees56177
Hit:2 https://packages.microsoft.com/repos/code stable InRelease
Hit:3 http://pk.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://pk.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:5 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/muhammadroshaanidrees56177# yum --version
Command 'yum' not found, did you mean:
  command 'gum' from snap gum (0.13.0)
  command 'uum' from deb freewnn-jserv (1.1.1~a021+cv520130302-7build1)
  command 'zum' from deb perforate (1.2-5.1)
  command 'yum4' from deb nextgen-yum4 (4.5.2-6)
  command 'sum' from deb coreutils (8.32-4.1ubuntu1.2)
  command 'num' from deb quickcal (2.4-1)
See 'snap info <snapname>' for additional versions.
root@Ubuntu:/home/muhammadroshaanidrees56177# 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/muhammadroshaanidrees56177# pwd
/home/muhammadroshaanidrees56177
root@Ubuntu:/home/muhammadroshaanidrees56177# apt-get install 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).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@Ubuntu:/home/muhammadroshaanidrees56177# apt search git

```

```

root@Ubuntu:/home/muhammadroshaanidrees56177# 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 https://packages.microsoft.com/repos/code stable InRelease
Hit:5 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/muhammadroshaanidrees56177# 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
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@Ubuntu:/home/muhammadroshaanidrees56177#

```

```

alsactop      getconf       more          splitfont
alsanixer     getent        mount         sprout
alsatplg      getfacl       mountpoint   sqfscat
alsaucm       getkeycodes  mousetweaks sqfstar
amidi         getopt       mscompress  ss
amixer        gettext.sh   msexpand    ssh
apg           ghostscript  mt           ssh-add
apgbfm        ginstall-info mt-gnu       ssh-agent
aplay         gio           mtr          ssh-argv0
apport-bug    gio-querymodules mtrace       ssh-copy-id
apport-cli    gipddcode    mtr-packet   ssh-keygen
apport-collect git            mv           ssh-keyscan
apport-unpack git-receive-pack namei         start-pulseaudio-x11
appres        git-shell     nano         stat
appstreamcli git-upload-archive nautilus     static-sh
apropos        git-upload-pack nawk         stduf
apt            gjs           nc           strace
apt-add-repository gjs-console  nc.openbsd  strace-log-merge
apt-cache      gkbd-keyboard-display nmap         streamzip
apt-cdrom      glib-compile-schemas nmap         strings
apt-config     gmake

```

```

muhammadroshaanidrees56177@Ubuntu:~$ mkdir lab07
muhammadroshaanidrees56177@Ubuntu:~$ cd lab07
muhammadroshaanidrees56177@Ubuntu:~/lab07$ touch program1.c
muhammadroshaanidrees56177@Ubuntu:~/lab07$ cat> program1.c
#include <stdio.h>
int main()
{
    int n;
    printf("Enter an integer:");
    scanf("%d", &n);

    if (n % 2 == 0) {
        printf("%d is even.\n", n);
    } else {
        printf("%d is odd.\n", n);
    }
    return 0;
}
muhammadroshaanidrees56177@Ubuntu:~/lab07$ gcc program1.c -o program1
muhammadroshaanidrees56177@Ubuntu:~/lab07$ ./program1
Enter an integer:4
4 is even.

```

```

muhammadroshaanidrees56177@Ubuntu:~/lab07$ 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)
muhammadroshaanidrees56177@Ubuntu:~/lab07$ touch CodesCracker.java
muhammadroshaanidrees56177@Ubuntu:~/lab07$ cat> CodesCracker.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 = numberTwo;

        System.out.println("\nLargest = " + largest);
    }
}
muhammadroshaanidrees56177@Ubuntu:~/lab07$ javac CodesCracker.java
muhammadroshaanidrees56177@Ubuntu:~/lab07$ java CodesCracker
Enter the First Number: 4
Enter the Second Number: 2

Largest = 4
muhammadroshaanidrees56177@Ubuntu:~/lab07$
```

```
muhammadroshaanidrees56177@Ubuntu:~$ cd lab07
muhammadroshaanidrees56177@Ubuntu:~/lab07$ touch infinite.c
muhammadroshaanidrees56177@Ubuntu:~/lab07$ cat> infinite.c
#include <stdio.h>
int main()
{
    int x = 1;
    while(1)
    {
        printf("Running %d\n", x);
    }
}
muhammadroshaanidrees56177@Ubuntu:~/lab07$ gcc infinite.c -o infinite
muhammadroshaanidrees56177@Ubuntu:~/lab07$ ./infinite
```



```
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Running 1  
Killed  
muhammadroshaanidrees56177@Ubuntu:~/lab07$
```

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