//to print hello//
code in gedit->echo "hello"
commands in terminal->
student@Lab-301-5:~$ gedit hello.sh
student@Lab-301-5:~$ sh hello.sh
hello
student@Lab-301-5:~$ ./hello.sh
bash: ./hello.sh: Permission denied
student@Lab-301-5:~$ chmod 777 hello.sh
student@Lab-301-5:~$ ./hello.sh
hello

//to add two numbers//
code in gedit->#!/bin/bash
echo "Enter first number"
read a
echo "Enter second number"
read b
c=`expr $a + $b`
echo $c
command in terminal->
student@Lab-301-5:~$ gedit add.sh
student@Lab-301-5:~$ sh add.sh
Enter first number
5
Enter second number
3
8

//sort top 10 processes in descending order//
student@Lab-301-5:~$ ps -e|sort -r|head
```
 PID TTY        TIME CMD
 994 ?      00:00:00 dnsmasq
 946 ?      00:00:00 dhclient
 942 ?      00:00:00 colord
 927 ?      00:00:00 lightdm
  9 ?       00:00:00 migration/0
 89 ?       00:00:00 charger_manager
 887 ?      00:00:00 kworker/1:1H
 882 ?      00:00:00 irqbalance
 88 ?       00:00:00 deferwq
```

//sorting top 10 processes in descending order according to pid//
student@Lab-301-5:~$ ps -ef --sort=-pid|head
```
UID      PID  PPID  C STIME TTY        TIME CMD
student  3581 2601 0 11:43 pts/5   00:00:00 head
student  3580 2601 0 11:43 pts/5   00:00:00 ps -ef --sort=-pid
root     3537  2 0 11:35 ?      00:00:00 [kworker/u8:2]
root     3474  2 0 11:29 ?      00:00:00 [kworker/u8:0]
root     3371  2 0 11:18 ?      00:00:00 [kworker/1:0]
root     3175  2 0 10:55 ?      00:00:00 [kworker/0:0]
root     3148  2 0 10:51 ?      00:00:00 [kworker/2:1]
```

student   3070 3051 0 10:47 ?   00:00:12 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
student   3051 1441 0 10:47 ?   00:00:00 /usr/lib/libreoffice/program/oosplash –writer

//Display processes with highest memory usage//
student@Lab-301-5:~$ ps -eo pid,pid,%mem,%cpu --sort=-%mem|head
 PID   PID %MEM %CPU
 2038 2038 9.7 4.0
 3070 3070 3.4 0.4
 1810 1810 2.1 0.9
 1830 1830 2.1 0.0
 1131 1131 1.3 0.9
 1847 1847 1.1 0.0
 1894 1894 1.1 0.0
 1677 1677 1.0 0.0
 1963 1963 1.0 0.0

//Display current logged in user and logname//
code in gedit->#!/bin/bash
whoami
echo "$LOGNAME"
command in terminal->
student@Lab-301-5:~$ sh 3.sh
student
student
//