OS LAB TASKS

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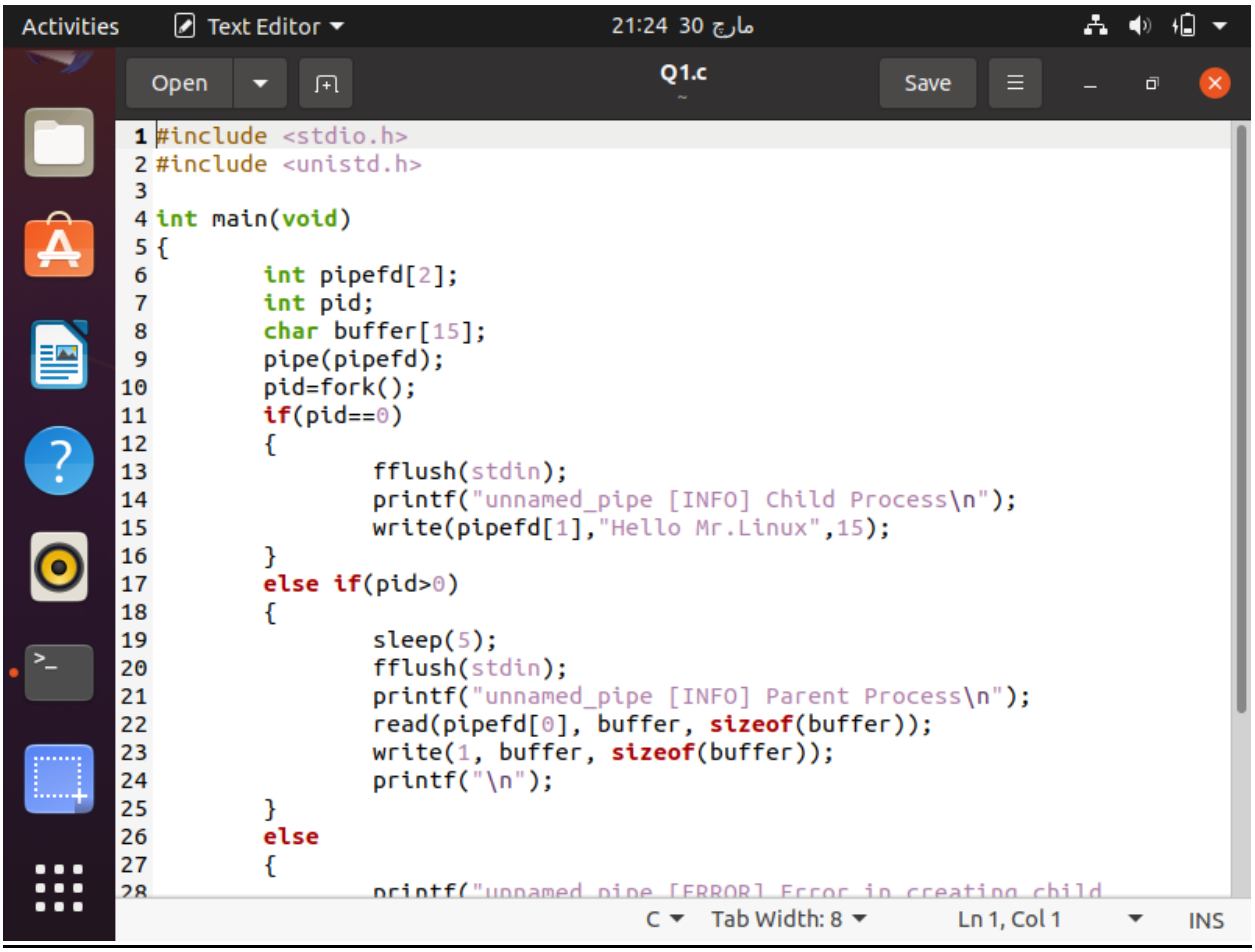
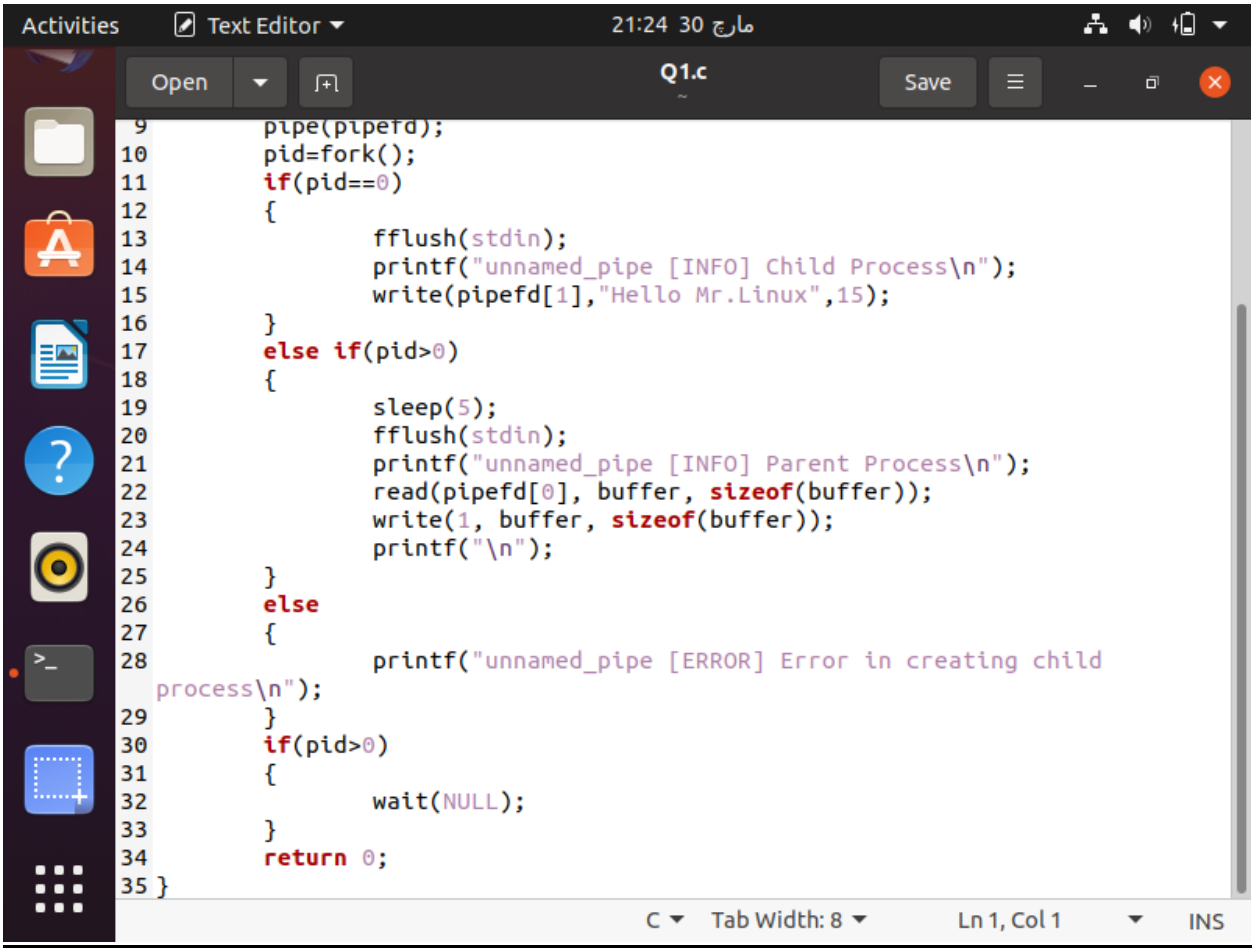
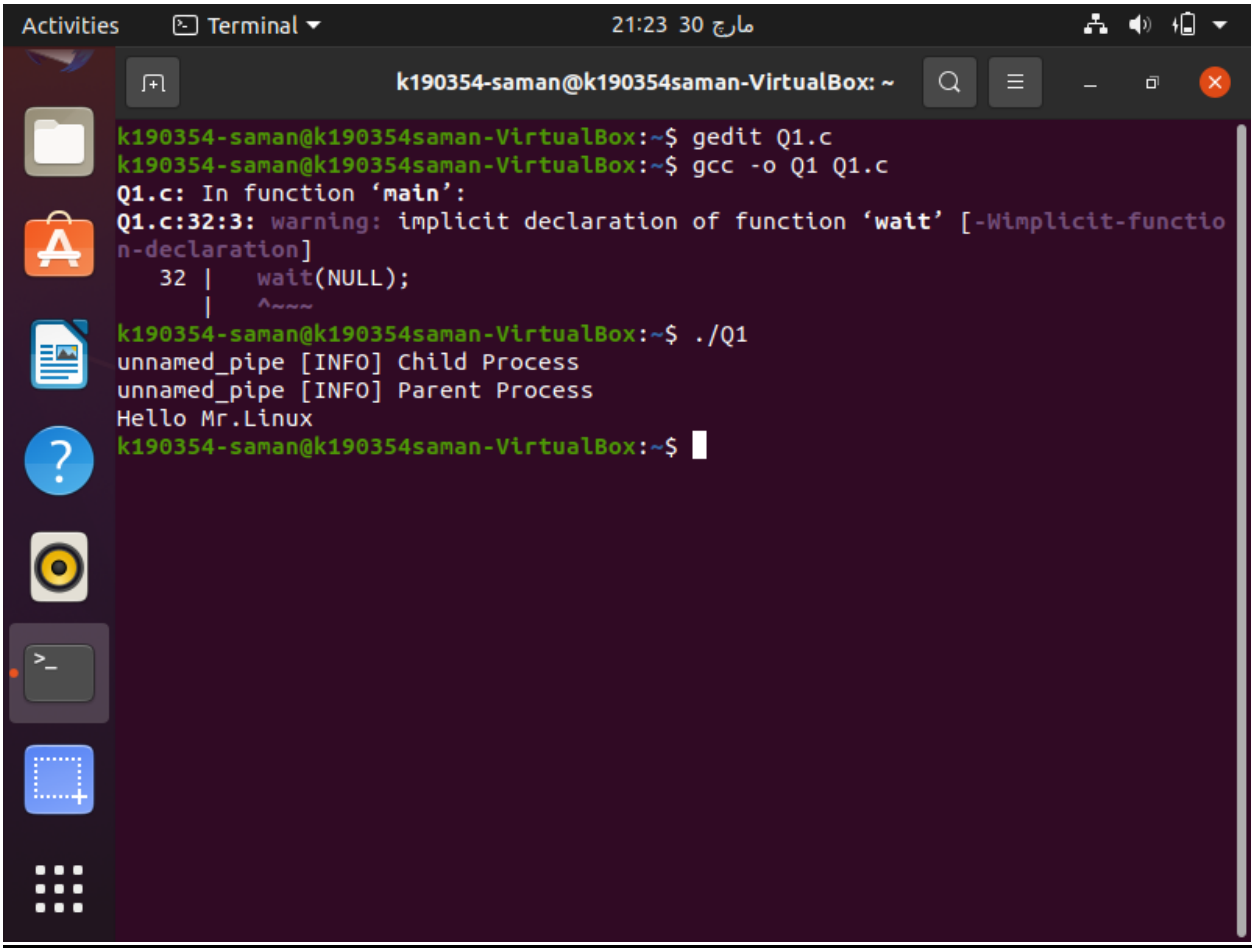
Section: H

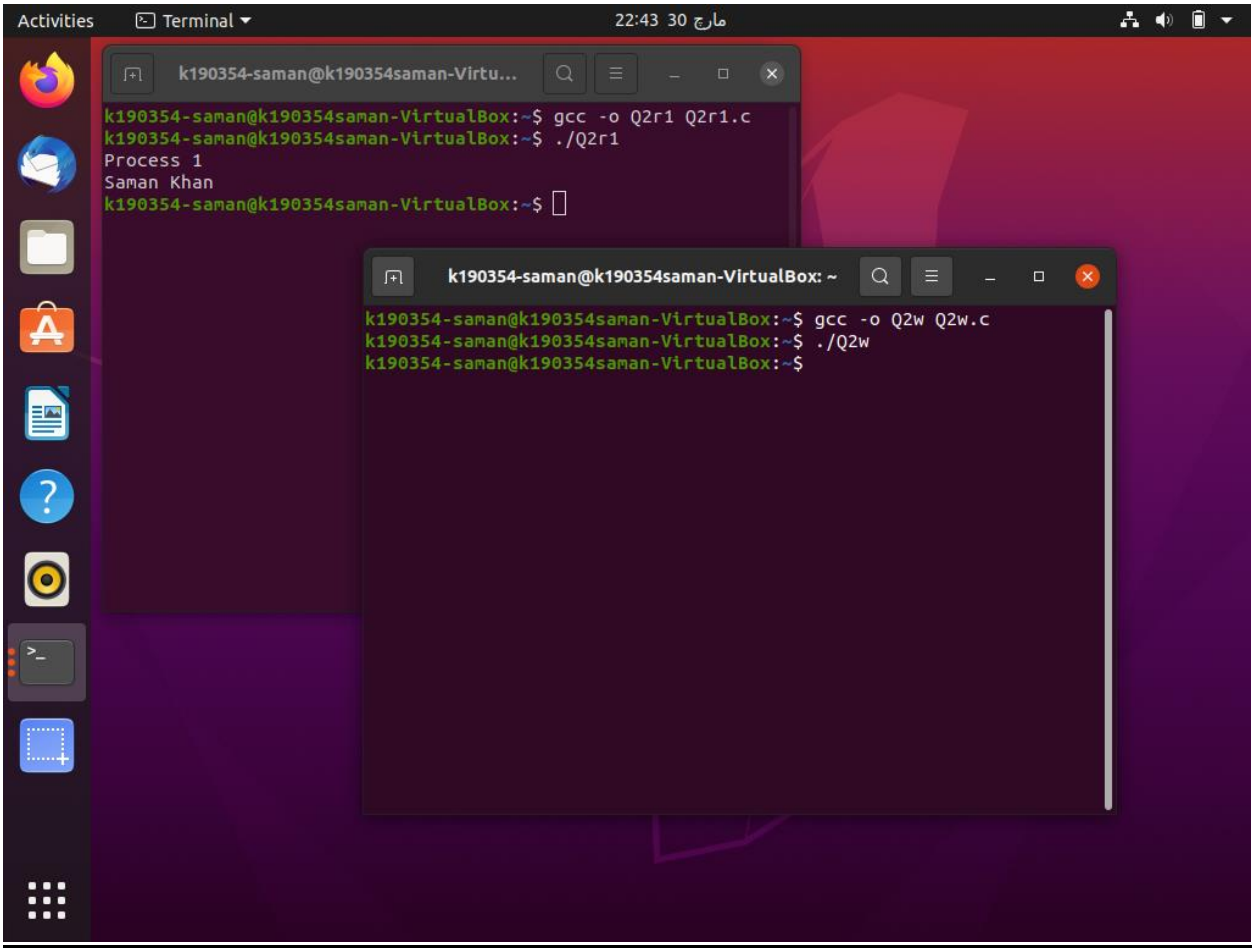
Question#01:

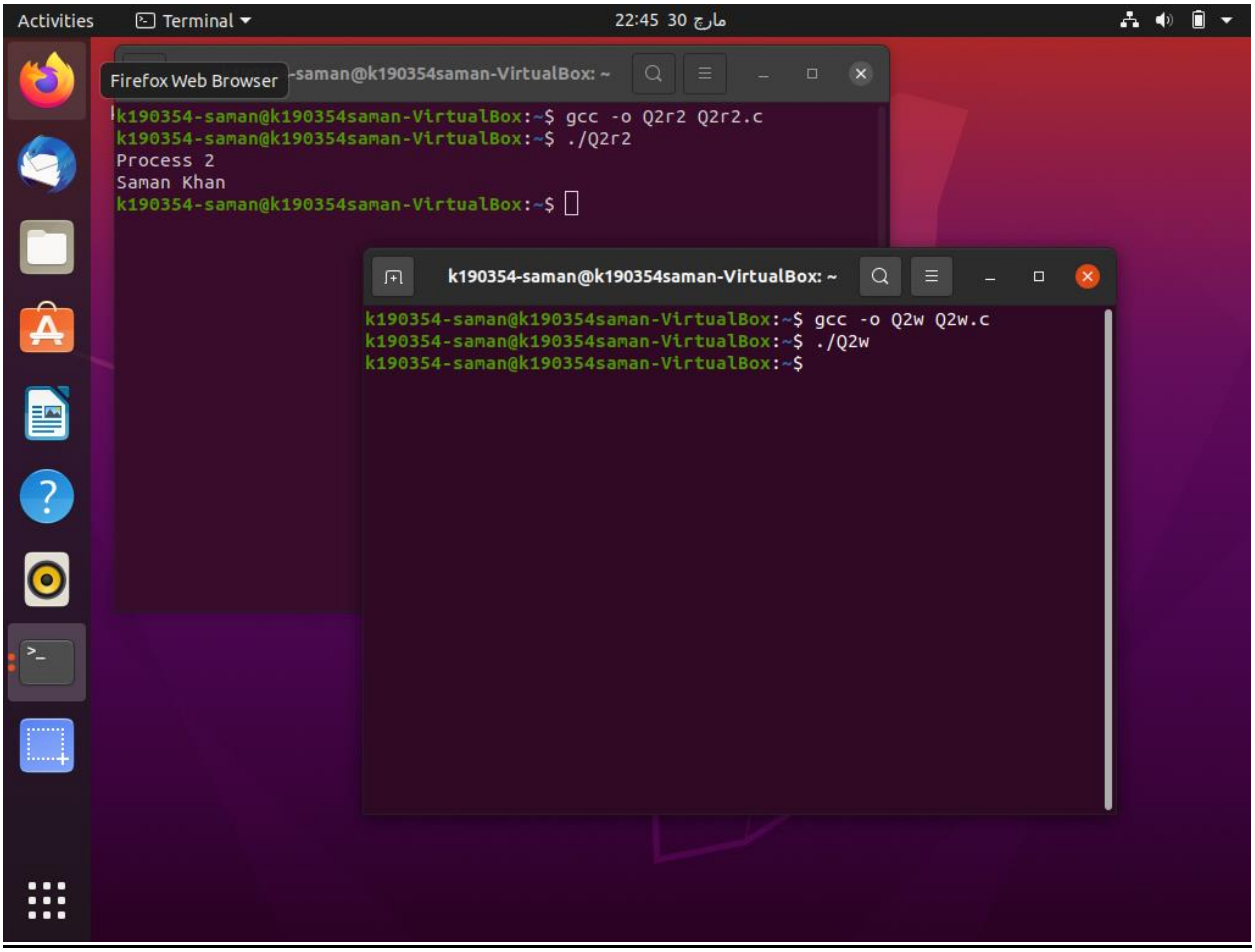


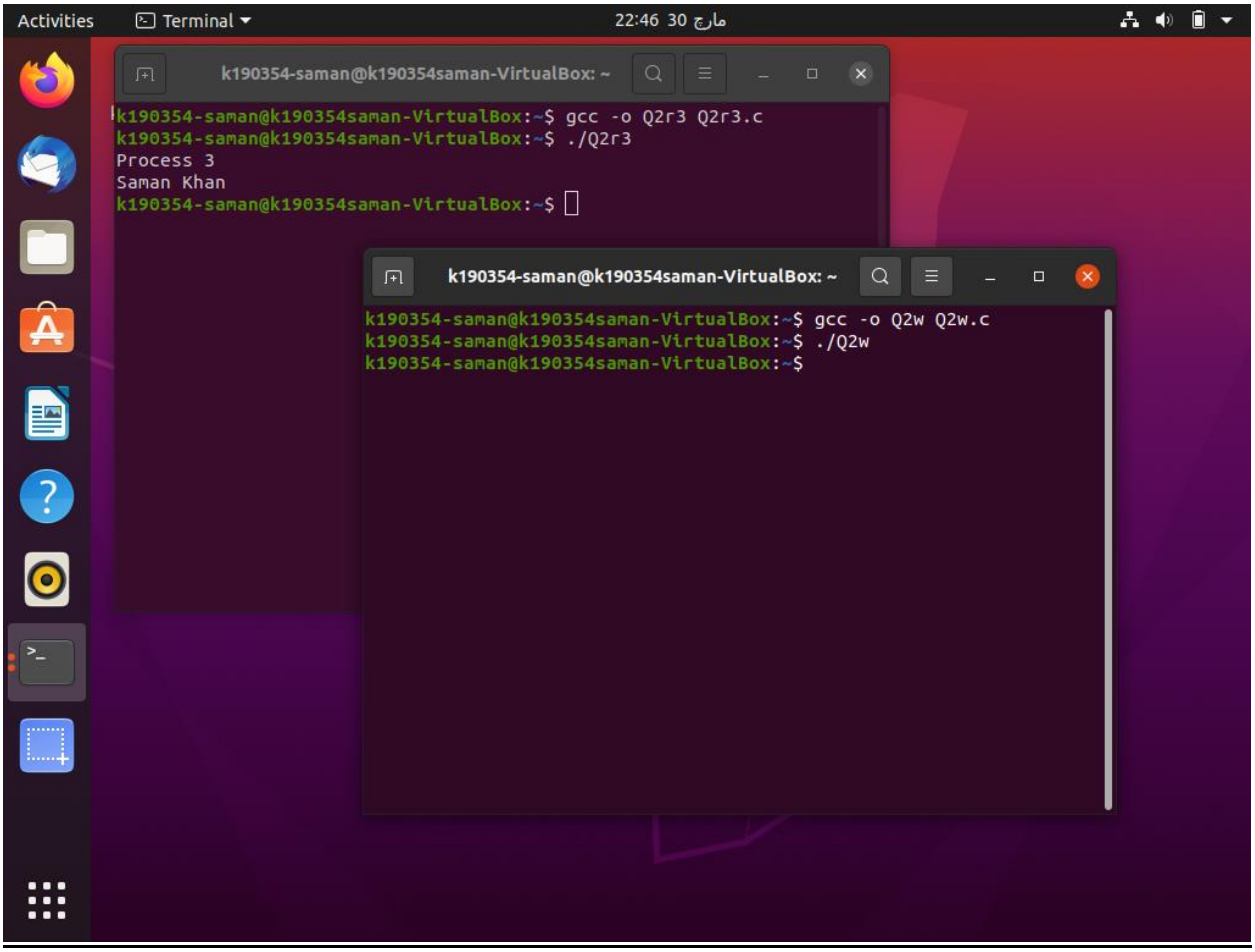

Activities
Text Editor
21:24 30 مارج
Open
Q1.c
Save
pipe(pipefd);
pid=fork();
if(pid==0)
{
fflush(stdin);
printf("unnamed_pipe [INFO] Child Process\n");
write(pipefd[1],"Hello Mr.Linux",15);
}
else if(pid>0)
{
sleep(5);
fflush(stdin);
printf("unnamed_pipe [INFO] Parent Process\n");
read(pipefd[0], buffer, sizeof(buffer));
write(1, buffer, sizeof(buffer));
printf("\n");
}
else
{
printf("unnamed_pipe [ERROR] Error in creating child process\n");
}
if(pid>0)
{
wait(NULL);
}
return 0;
}
C
Tab Width: 8
Ln 1, Col 1
INS

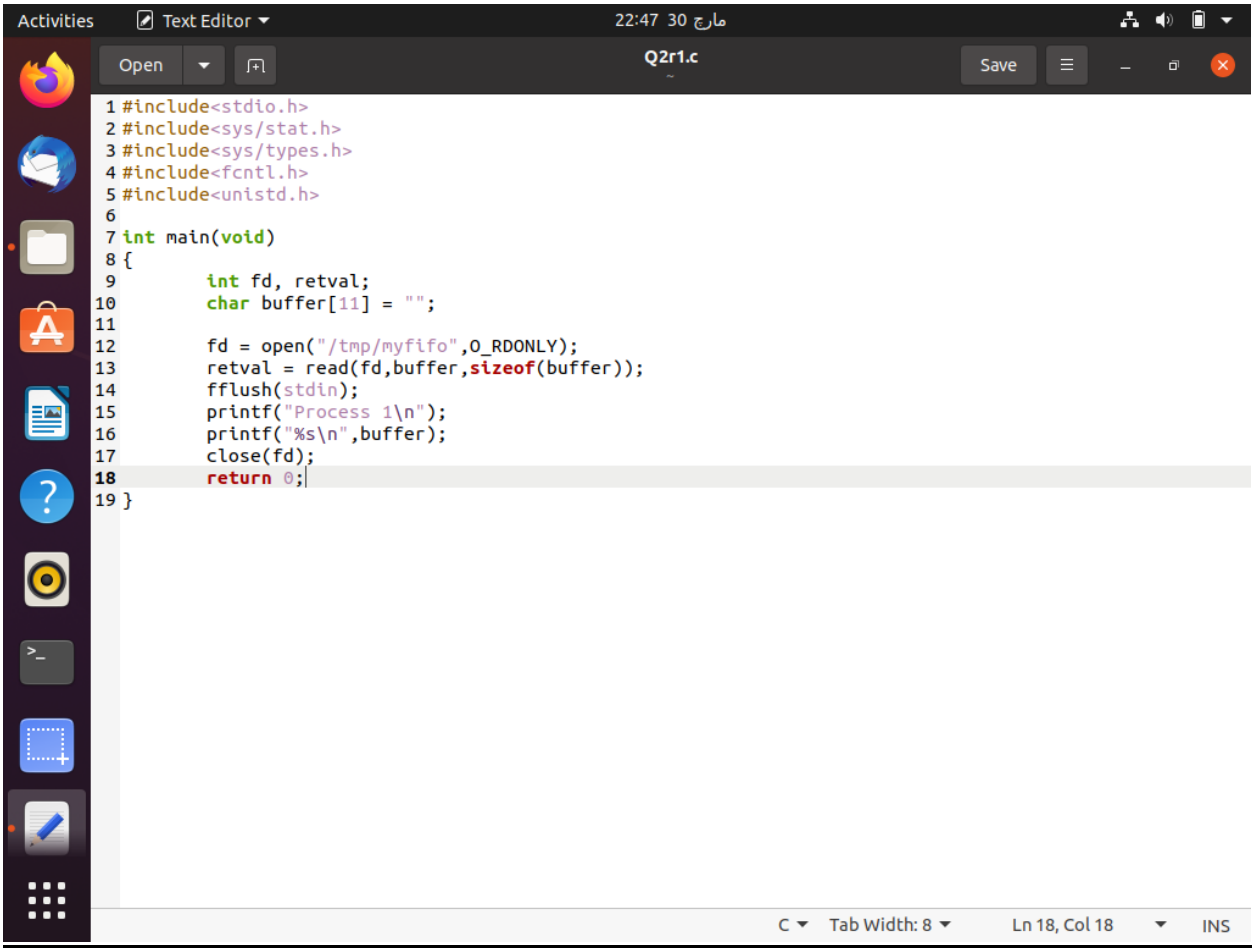

Activities
Terminal
21:23 30 مارچ
k190354-saman@k190354saman-VirtualBox: ~
k190354-saman@k190354saman-VirtualBox:~$ gedit Q1.c
k190354-saman@k190354saman-VirtualBox:~$ gcc -o Q1 Q1.c
Q1.c: In function ‘main’:
Q1.c:32:3: warning: implicit declaration of function ‘wait’ [-Wimplicit-function-declaration]
32 | wait(NULL);
| ^~~~
k190354-saman@k190354saman-VirtualBox:~$ ./Q1
unnamed_pipe [INFO] Child Process
unnamed_pipe [INFO] Parent Process
Hello Mr.Linux
k190354-saman@k190354saman-VirtualBox:~$

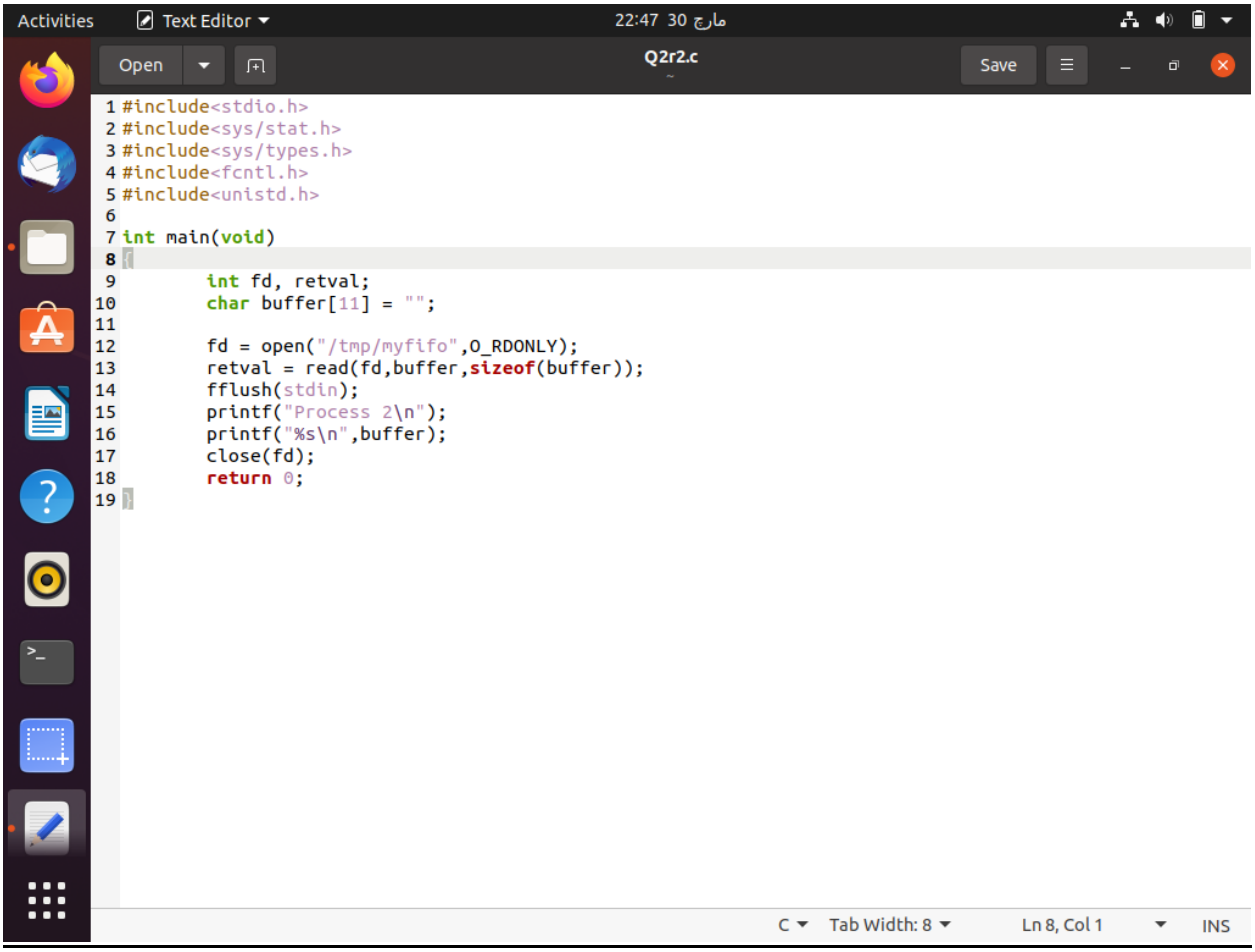
Question#02:

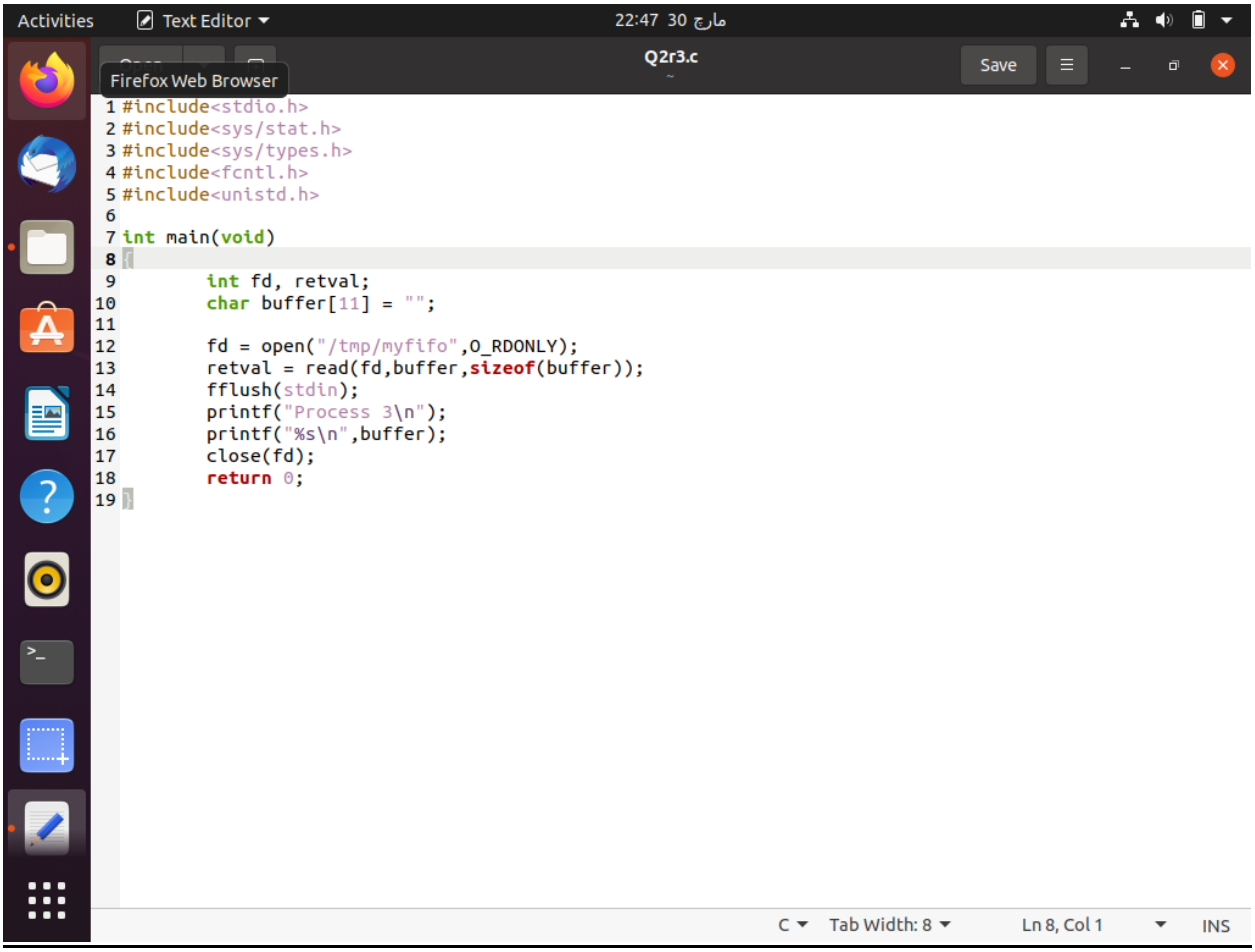

Activities
Terminal
22:43 30 مارج
k190354-saman@k190354saman-Virtu...
k190354-saman@k190354saman-VirtualBox:~$ gcc -o Q2r1 Q2r1.c
k190354-saman@k190354saman-VirtualBox:~$ ./Q2r1
Process 1
Saman Khan
k190354-saman@k190354saman-VirtualBox:~$
k190354-saman@k190354saman-VirtualBox: ~
k190354-saman@k190354saman-VirtualBox:~$ gcc -o Q2w Q2w.c
k190354-saman@k190354saman-VirtualBox:~$ ./Q2w
k190354-saman@k190354saman-VirtualBox:~$

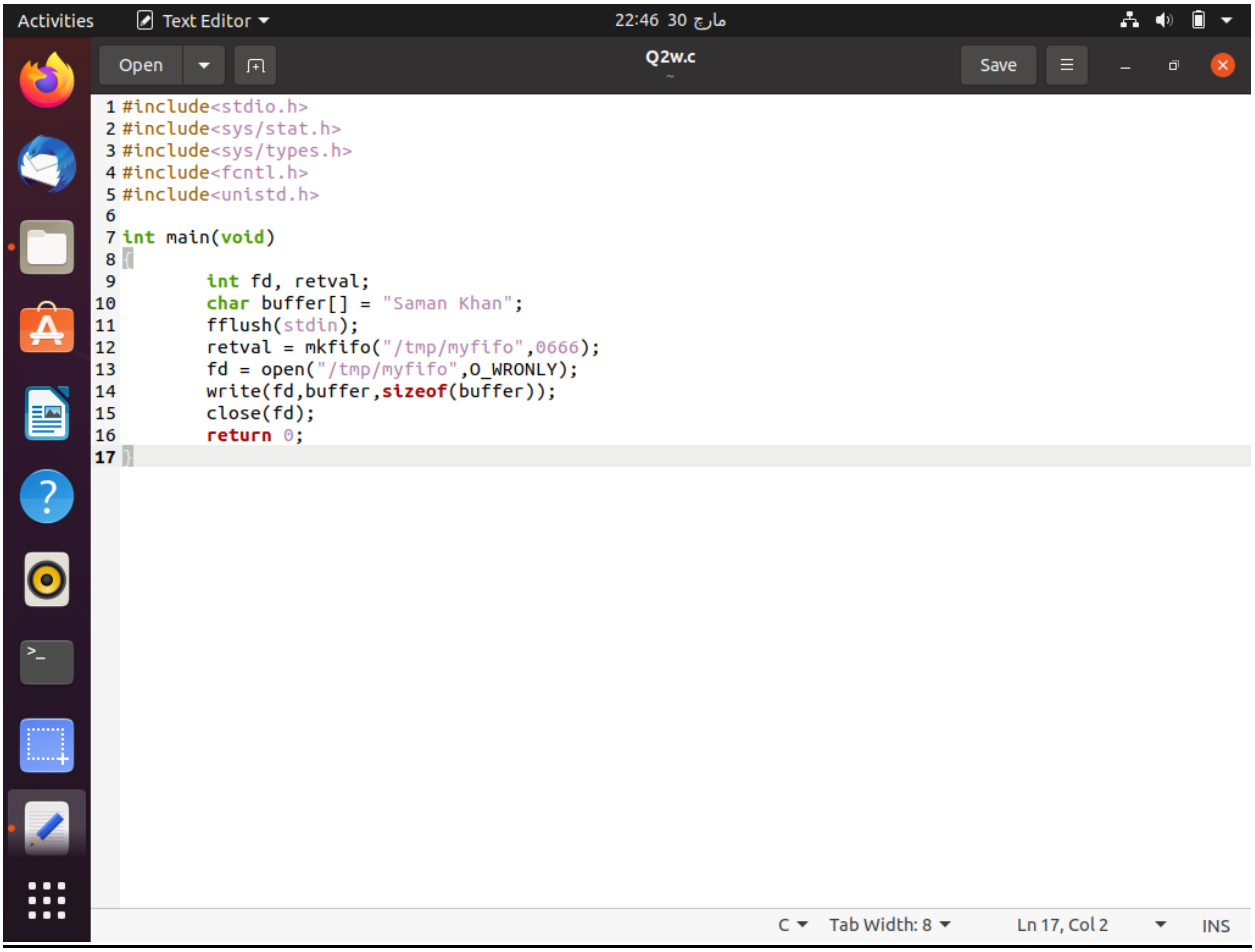

Activities
Terminal
22:45 30 مارج
Firefox Web Browser
k190354-saman@k190354saman-VirtualBox: ~
k190354-saman@k190354saman-VirtualBox:~$ gcc -o Q2r2 Q2r2.c
k190354-saman@k190354saman-VirtualBox:~$ ./Q2r2
Process 2
Saman Khan
k190354-saman@k190354saman-VirtualBox:~$
k190354-saman@k190354saman-VirtualBox: ~
k190354-saman@k190354saman-VirtualBox:~$ gcc -o Q2w Q2w.c
k190354-saman@k190354saman-VirtualBox:~$ ./Q2w
k190354-saman@k190354saman-VirtualBox:~$


Activities
Terminal
22:46 30 مارج
k190354-saman@k190354saman-VirtualBox: ~
k190354-saman@k190354saman-VirtualBox:~$ gcc -o Q2r3 Q2r3.c
k190354-saman@k190354saman-VirtualBox:~$ ./Q2r3
Process 3
Saman Khan
k190354-saman@k190354saman-VirtualBox:~$
k190354-saman@k190354saman-VirtualBox: ~
k190354-saman@k190354saman-VirtualBox:~$ gcc -o Q2w Q2w.c
k190354-saman@k190354saman-VirtualBox:~$ ./Q2w
k190354-saman@k190354saman-VirtualBox:~$


Activities
Text Editor
22:47 30 مارج
Open
Q2r1.c
Save
#include<stdio.h>
#include<sys/stat.h>
#include<sys/types.h>
#include<fcntl.h>
#include<unistd.h>
int main(void)
{
int fd, retval;
char buffer[11] = "";
fd = open("/tmp/myfifo",O_RDONLY);
retval = read(fd,buffer,sizeof(buffer));
fflush(stdin);
printf("Process 1\n");
printf("%s\n",buffer);
close(fd);
return 0;
}
C
Tab Width: 8
Ln 18, Col 18
INS


Activities
Text Editor
22:47 30 مارج
Open
Q2r2.c
Save
#include<stdio.h>
#include<sys/stat.h>
#include<sys/types.h>
#include<fcntl.h>
#include<unistd.h>
int main(void)
{
int fd, retval;
char buffer[11] = "";
fd = open("/tmp/myfifo",O_RDONLY);
retval = read(fd,buffer,sizeof(buffer));
fflush(stdin);
printf("Process 2\n");
printf("%s\n",buffer);
close(fd);
return 0;
}
C
Tab Width: 8
Ln 8, Col 1
INS


Activities
Text Editor
22:47 30 مارج
Firefox Web Browser
Q2r3.c
Save
#include<stdio.h>
#include<sys/stat.h>
#include<sys/types.h>
#include<fcntl.h>
#include<unistd.h>
int main(void)
{
int fd, retval;
char buffer[11] = "";
fd = open("/tmp/myfifo",O_RDONLY);
retval = read(fd,buffer,sizeof(buffer));
fflush(stdin);
printf("Process 3\n");
printf("%s\n",buffer);
close(fd);
return 0;
}
C
Tab Width: 8
Ln 8, Col 1
INS


Activities
Text Editor
22:46 30 مارچ
Open
Q2w.c
Save
#include<stdio.h>
#include<sys/stat.h>
#include<sys/types.h>
#include<fcntl.h>
#include<unistd.h>
int main(void)
{
int fd, retval;
char buffer[] = "Saman Khan";
fflush(stdin);
retval = mkfifo("/tmp/myfifo",0666);
fd = open("/tmp/myfifo",O_WRONLY);
write(fd,buffer,sizeof(buffer));
close(fd);
return 0;
}
C
Tab Width: 8
Ln 17, Col 2
INS