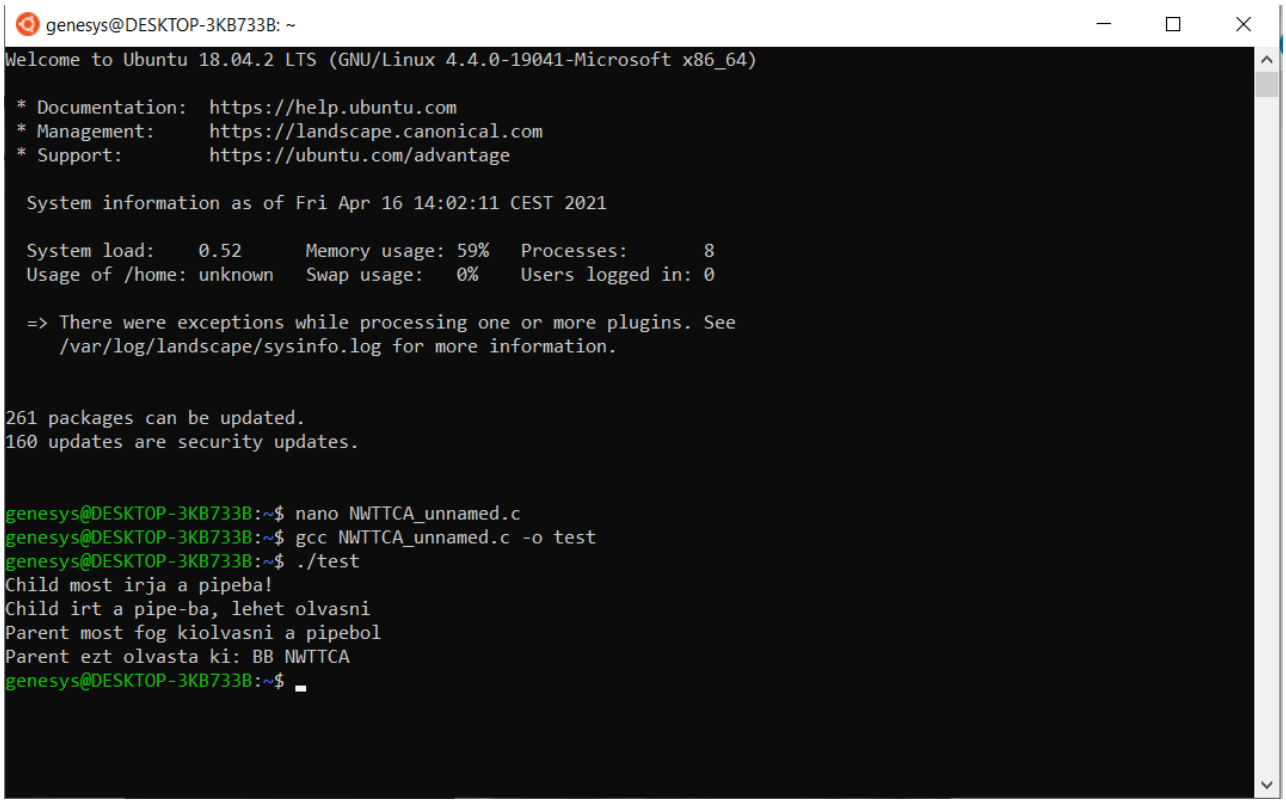
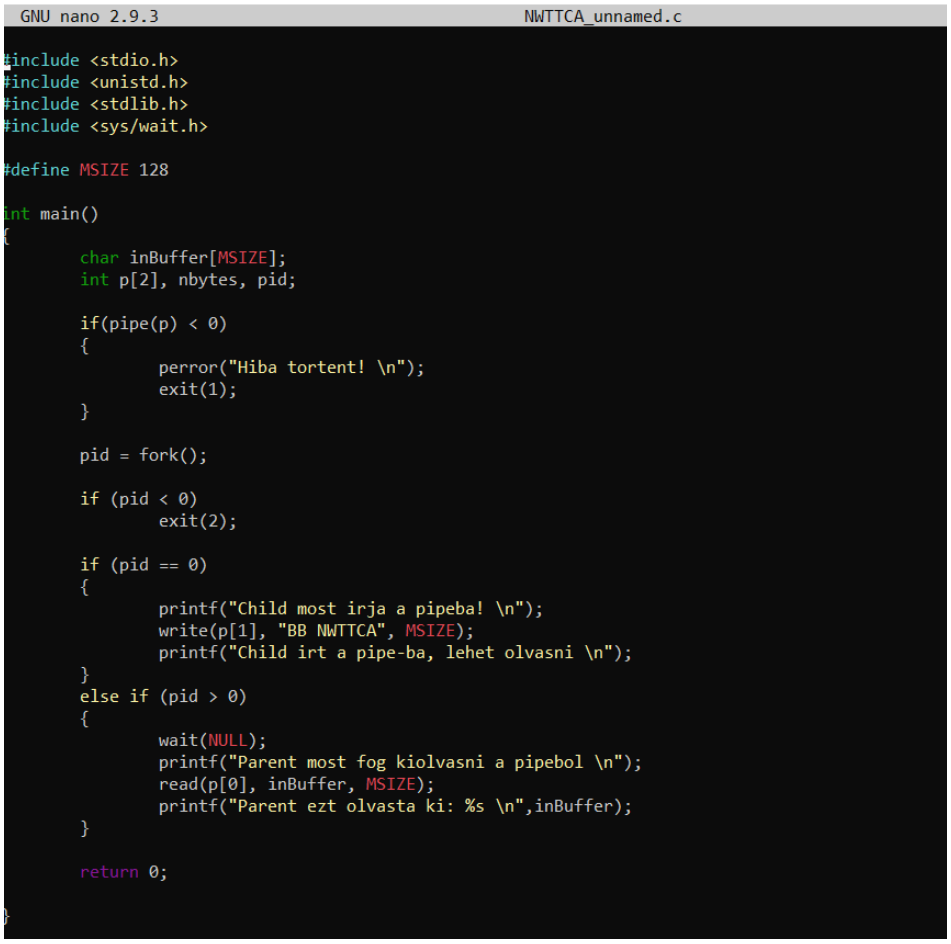

genesys@DESKTOP-3KB733B: ~
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.4.0-19041-Microsoft x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Fri Apr 16 14:02:11 CEST 2021
System load: 0.52 Memory usage: 59% Processes: 8
Usage of /home: unknown Swap usage: 0% Users logged in: 0
=> There were exceptions while processing one or more plugins. See
/var/log/landscape/sysinfo.log for more information.
261 packages can be updated.
160 updates are security updates.
genesys@DESKTOP-3KB733B:~$ nano NWTTCA_unnamed.c
genesys@DESKTOP-3KB733B:~$ gcc NWTTCA_unnamed.c -o test
genesys@DESKTOP-3KB733B:~$ ./test
Child most irja a pipeba!
Child irt a pipe-ba, lehet olvasni
Parent most fog kiolvasni a pipebol
Parent ezt olvasta ki: BB NWTTCA
genesys@DESKTOP-3KB733B:~$


GNU nano 2.9.3 NWTTCA_unnamed.c
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
#include <sys/wait.h>
#define MSIZE 128
int main()
{
char inBuffer[MSIZE];
int p[2], nbytes, pid;
if(pipe(p) < 0)
{
perror("Hiba tortent! \n");
exit(1);
}
pid = fork();
if (pid < 0)
exit(2);
if (pid == 0)
{
printf("Child most irja a pipeba! \n");
write(p[1], "BB NWTTCA", MSIZE);
printf("Child irt a pipe-ba, lehet olvasni \n");
}
else if (pid > 0)
{
wait(NULL);
printf("Parent most fog kiolvasni a pipebol \n");
read(p[0], inBuffer, MSIZE);
printf("Parent ezt olvasta ki: %s \n",inBuffer);
}
return 0;
}

2.feladat

```
genesys@DESKTOP-3KB733B: ~
genesys@DESKTOP-3KB733B:~$ nano NWTTCA_named.c
genesys@DESKTOP-3KB733B:~$ gcc NWTTCA_named.c -o test
genesys@DESKTOP-3KB733B:~$ ./test
Child most fog beirni a fifo pipe-ba
Child sikeresen irt a pipe.ba
Parent ezt kaptam: Bartfai Balint
genesys@DESKTOP-3KB733B:~$
```

genesys@DESKTOP-3KB733B: ~

GNU nano 2.9.3 NWTTCA_named.c

```c
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
#include <fcntl.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <string.h>

#define MSIZE 128

int main()
{
        char inBuffer[MSIZE];
        int pid, fileDesc;
        char input[] = "Bartfai Balint";
        char * fifo = "/tmp/nwttca";

        mkfifo(fifo, 0666);

        pid = fork();

        if (pid < 0)
        {
                exit(2);
        }

        if (pid == 0)
        {
                printf("Child most fog beirni a fifo pipe-ba \n");
                fileDesc = open(fifo, O_WRONLY);
                write(fileDesc, input, strlen(input) + 1);
                printf("Child sikeresen irt a pipe.ba \n");
        }
        else if (pid > 0)
        {
                fileDesc = open(fifo, O_RDONLY);
                read(fileDesc, inBuffer, strlen(input)+1);
                printf("Parent ezt kaptam: %s \n", inBuffer);
                close(fileDesc);
        }

        return 0;
```

[Read 45 lines]

3.feladat

```
genesys@DESKTOP-3KB733B:~$ nano NWTTCA_gyak9_3_1.c
genesys@DESKTOP-3KB733B:~$ gcc NWTTCA_gyak9_3_1.c -o test
genesys@DESKTOP-3KB733B:~$ ./test
Hasznalat: ./NWTTCA_gyak9_3_1 PID
```

genesys@DESKTOP-3KB733B: ~

GNU nano 2.9.3 NWTTCA_gyak9_3_1.c

```c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <signal.h>

int main(int argc, char **argv)
{
        if(argc != 2)
        {
                printf("Hasznalat: ./NWTTCA_gyak9_3_1 PID\n");
                return 1;
        }


        pid_t pid = (pid_t)atoi(argv[1]);
        kill(pid, SIGALRM);

        return 0;
}
```

genesys@DESKTOP-3KB733B: ~

GNU nano 2.9.3 NWTTCA_gyak9_3_2.c

```c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <signal.h>

void AlarmHandler(int sig);

int main(void)
{
        if(signal(SIGALRM, AlarmHandler) == SIG_ERR){
                printf("Hiba tortent \n");
                return 1;
        }

        pause();
        return 0;
}

void AlarmHandler(int sig){
        printf("NWTTCA \n Nem blokkolodok \n");
        exit(1);
}
```

4.feladat

genesys@DESKTOP-3KB733B: ~

GNU nano 2.9.3 NWTTCA_gyak9_4.c

```c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <signal.h>

void TerminationHandler(int sig);

int main(void)
{
        if(signal(SIGTERM, TerminationHandler) == SIG_ERR){
                printf("Nem sikerult handlert allitani a \"SIGTERM\" jelre \n");
                return 0;
        }

        while(1){
                printf("Varakozas \n");
                sleep(3);
        }

        return 0;
}

void TerminationHandler(int sig){
        signal(sig, SIG_IGN);
        printf("SIGTERM signal: %d\n", sig);
}
```

```
genesys@DESKTOP-3KB733B:~$ nano NWTTCA_gyak9_4.c
genesys@DESKTOP-3KB733B:~$ gcc NWTTCA_gyak9_4.c -o test
genesys@DESKTOP-3KB733B:~$ ./test
Varakozas
Varakozas
Varakozas
Varakozas
Varakozas
Varakozas
Varakozas
Varakozas
```