Operációs rendszerek BSc

2. Gyak.

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Készítette:

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CMU4ZN

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1. **feladat**

```c
#include <stdio.h>
#include <stdlib.h>
#include <sys/file.h>
#include <unistd.h>

int main()
{

    int file = open("CMU4ZN.txt",O_RDWR);

    if (file > 0)
    {
        printf("Sikeres beolvasas\n\n");
    }
    else
    {
        printf("Hiba tortent a fajl beolvasasnal\n");
    }

    char txt[54];
    ssize_t x = read(file,&txt,54);

    if (x < 0) printf("Hiba tortent a fajl kiolvasasnal\n");
    else printf("%s\nBeolvasott byte: %ld\n",txt,x);

    lseek(file,0,SEEK_SET);
    read(file,&txt,54);

    ssize_t w = write(1,&txt,54);
    if(w < 0) printf("Hiba a kiiratasnal\n");
    else printf("\nKiirt byte mennyiseg: %ld",w);


    return 0;
}
```

2. **feladat**

```c
#include <stdio.h>
#include <unistd.h>
#include <signal.h>
#include <sys/types.h>

void do_nothing();
void handleSignals(int sig);

int main() {

    printf("PID: %d\n", getpid());

    signal(SIGINT, handleSignals);
    signal(SIGQUIT, handleSignals);
    signal(SIGALRM, do_nothing);
    unsigned sec=10;

    while (1) {
        alarm(sec);
        printf("Varakozas.....\n");
        pause();
    }
    return 0;
}

void do_nothing(){ ;}

void handleSignals(int sig) {
    if (sig == SIGQUIT) {
        printf("SIGQUIT a kapott ertek  -  %d\n", sig);
    }

    else if (sig == SIGINT) {
        printf("SIGINT a kapott ertek  -  %d\n", sig);
        signal(SIGINT, SIG_DFL);
    }
}
```