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/*
c program to create new text file by taking i/p s from kboard.
command line args and sys calls have to be used wherever possible.
*/
#include<stdio.h> // perror
#include <unistd.h> // read, write, close
#include <stdlib.h> // exit()
#include <fcntl.h> // mode consts
#include <signal.h> // SIGTSTP; to catch ctrl + z kboard i/p
#include <sys/errno.h> //errno
int main(int argc, char **argv)
{
        int fd, msg;
        char read_byte;
       fd = open(argv[argc - 1], O_WRONLY | O_CREAT | O_EXCL, 0777);
        if (fd != -1)
        {
                while (read(STDIN_FILENO, &read_byte, sizeof(read_byte)) != SIGTSTP)
                {
                        write(fd, &read_byte, sizeof(read_byte));
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}
               close(fd);
       }
        else
        {
               write(STDOUT_FILENO, &errno, sizeof(errno));
               perror("File Open Error");
               exit(1);
       }
}
/*
c program to make a copy of the text file created in assignment-1-1.c.
system calls should be used.
*/
#include<fcntl.h>
#include<sys/errno.h>
#include<unistd.h>
#include<stdlib.h>
#include<stdio.h>
```

```
int main(){
  int fd1, fd2, check_read;
  char read_byte;
  fd1 = open("new-file.txt", O_RDONLY);
  fd2 = open("new-file-copy.txt", O_WRONLY | O_CREAT | O_EXCL, 0777);
  if (fd1 == -1 | | fd2 == -1)
  {
    write(1, &errno, sizeof(errno));
                perror("File Open Error");
               exit(1);
  }
  else
  {
    while (read(fd1, &read_byte, sizeof(read_byte)) > 0)
    {
      write(fd2, &read_byte, sizeof(read_byte));
    }
    close(fd1);
```

close(fd2);

```
}
  return 0;
}
/*
c program to check whether the sizes of the two text files created by
assignment-1-1.c and assignment-1-2.c are same or not.
*/
#include<unistd.h>
#include<stdio.h>
#include<fcntl.h>
#include<sys/errno.h>
#include<stdlib.h>
int main(){
  int fd1, fd2, file_1_size = 0, file_2_size = 0;
  fd1 = open("new-file.txt", O_RDONLY);
  fd2 = open("new-file-copy.txt", O_RDONLY);
  char read_byte;
  if (fd1 == -1 | | fd2 == -1)
  {
```

```
write(1, &errno, sizeof(errno));
              perror("File Open Error");
              exit(1);
}
else
{
  while (read(fd1, &read_byte, sizeof(read_byte)) > 0)
    file_1_size++;
  while (read(fd2, &read_byte, sizeof(read_byte)) > 0)
    file_2_size++;
  if (file_1_size == file_2_size)
    printf("They are of same sizes...");
  else
    printf("They are of different sizes...");
  close(fd1);
  close(fd2);
}
```

}

```
c program to display content of a file if it exists
else create a new file of 0 length.
*/
#include<stdio.h>
#include<fcntl.h>
#include<stdlib.h>
#include<unistd.h>
int main(int argc, char **argv){
        int fd;
        char read_byte;
        if(((fd = open(argv[1], O_RDONLY)) != -1)){
                while(read(fd, &read_byte, sizeof(read_byte)) > 0){
                        write(STDOUT_FILENO, &read_byte, sizeof(read_byte));
                }
       }
        else if(fd == -1)
                fd = open(argv[1], O_CREAT, 0777);
```

/*

```
close(fd);
return 0;
}
```