

QUES 5. Write a program to copy files using system calls.

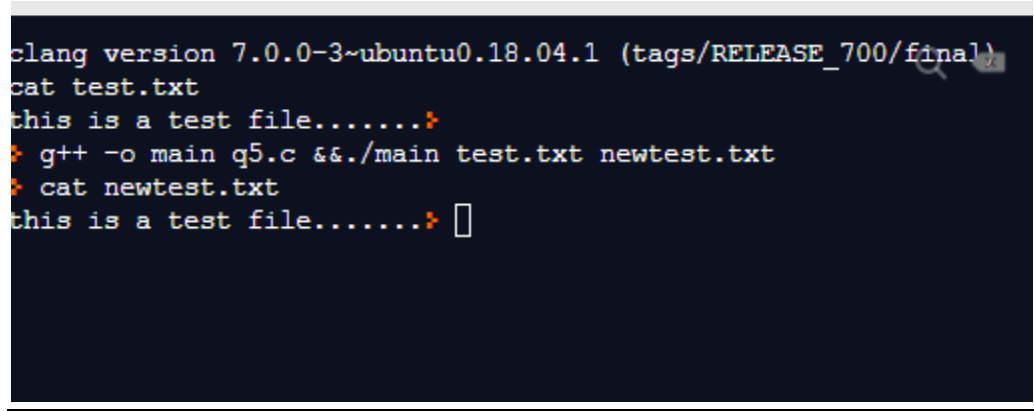
```
#include<stdio.h>
#include<unistd.h>
#include<stdlib.h>
#include<sys/types.h>
#include<sys/stat.h>
#include<fcntl.h>
void copy(int,int);
void display(int);
int main(int argc,char *argv[])
{
    int fold,fnew;
    if(argc!=3)
    {
        printf("Two Arguments Required");
        exit(1);
    }
    fold=open(argv[1],0);
    if(fold==-1)
    {
        printf("Unable to Open the File\n%s",argv[1]);
        exit(1);
    }
    fnew=creat(argv[2],0666);
    if(fnew==-1)
    {
        printf("Unable to Create the File%s\n",argv[2]);
        exit(1);
    }
    copy(fold,fnew);
    exit(0);
    close(fold);
    close(fnew);
    fnew=open(argv[2],0);
    printf("New File:\n");
    display(fnew);
    close(fnew);
    exit(0);
}
void copy(int old,int newfile)
{
    int count=0;
    char buffer[512];
```

```

while((count=read(old,buffer,sizeof(buffer)))>0)
{
    write(newfile,buffer,count);
}
}
void display(int fnew)
{
    int count=0,i;
    char buffer[512];
    while((count=read(fnew,buffer,sizeof(buffer)))>0)
    {
        for(i=0;i<count;i++)
        {
            printf("%c",buffer[i]);
        }
    }
    for(i=0;i<count;i++)
    {
        printf("%c",buffer[i]);
    }
}
}

```

OUTPUT:



```

clang version 7.0.0-3~ubuntu0.18.04.1 (tags/RELEASE_700/final)
cat test.txt
this is a test file.....
❖ g++ -o main q5.c &&./main test.txt newtest.txt
❖ cat newtest.txt
this is a test file.....

```