20.Write a C program that will read a directory containing a set of files, create a

new sub directory called “backup” in same directory and copy all the files from

directory to the new sub directory “backup”. You are supposed to use exec()

with “cp” command. ( Create child processes that can execute each of the cp

commands to copy the file from directory to subdirectory “backup”)

#include<stdio.h>

#include<dirent.h>

#include<string.h>

#include<unistd.h>

#include<sys/wait.h>

#include<sys/stat.h>

int main()

{

DIR \*d;

struct dirent \*dir;

int create\_dir,pid,status;

create\_dir = mkdir("backup",0777);

if (!create\_dir)

printf("Directory created\n");

else {

printf("Unable to create directory\n");

}

pid=fork();

if(pid==0){

d = opendir(".");

if (d)

{

while ((dir = readdir(d)) != NULL)

{

char fname[20];

char path[20];

strcpy(path,"backup/");

strcpy(fname,dir->d\_name);

strcat(path,fname);

printf("%s \n",path);

execlp("cp", "cp","-r", fname, path, (char \*)0);

}

closedir(d);

}

else

waitpid(pid,&status,0);

}

}