**5. Write a C program to read all txt files (that is files that ends with .txt) in the current directory and merge them all to one txt file and returns a file descriptor for the new file.**

#include<stdio.h>

#include<dirent.h>

#include<string.h>

#include <sys/stat.h>

#include<fcntl.h>

int main()

{

DIR \*d;

int rdfd,wrfd;

struct dirent \*dir;

struct stat info;

char \*position;

if ((wrfd = creat("/root/mergedfile.txt",0777 )) < 0)

printf("creat error");

d = opendir(".");

if (d)

{

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

{

if (stat(dir->d\_name, &info) == -1) {

printf("stat error");

}

if((info.st\_mode & S\_IFMT)== S\_IFREG){

position=strstr(dir->d\_name,"txt");

if(position){

printf("%s\n",dir->d\_name);

char buf[2048];

int count=0;

rdfd = open(dir->d\_name,O\_RDONLY);

while ((count = read(rdfd, buf, sizeof(buf))) > 0)

write(wrfd, buf, count);

}

}

close(rdfd);

}

closedir(d);

}

close(wrfd);

printf("All .txt files data is merged in file with file descriptor as %d",wrfd);

return(0);

}