1.

```
#include <stdio.h>
#include <unistd.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <fcntl.h>
#include <stdlib.h>
int main()
     int fd, PAGE_SIZE, ret;
     char *buf;
     struct stat *sbuf
     PAGE_SIZE = getpagesize();
     buf = (char *) malloc(PAGE_SIZE + 10);
     if(buf == NULL) {
           printf("No memory \n");
           exit(1);
     fd = open("./test.txt", O_RDONLY);
     if( fd < 0) {
           perror("open:");
           exit(1);
      /***********
      Enabling page read
      ************
     ret = read(fd, buf, PAGE_SIZE);
     if( ret == -1) {
           perror("read:);
           exit(1);
     fprintf(stderr,"%s\n", buf);
     fflush(stderr);
      /**************
      Repositioning the file descriptor to the start of the file
      ret = lseek(fd, 0, SEEK_SET);
     if(ret == -1) {
           perror("lseek:");
           exit(1);
     /**************
      Read till end of the of file
      ****************
```

```
ret = fstat(fd, sbuf);
                      if( ret == -1) {
                             perror("fstat : ");
                             exit(0);
                      }
                      ret = read(fd, buf, sbuf->st_size);
                      if(ret == -1) {
                             perror("read:");
                              exit(1);
                      }
                      close(fd);
                      return 0;
               }
2.
               #include <stdio.h>
               #include <sys/stat.h>
               #include <fcntl.h>
               int main()
                      int fd;
                      fd = open("./demo.txt", O_CREAT | O_NONBLOCK | O_RDWR);
                      if( fd < 0) {
                             perror("open:");
                              exit(1);
                      close(fd);
                      return 0;
               }
3.
               #include <stdio.h>
               #include <sys/stat.h>
               #include <sys/types.h>
               #include <unistd.h>
               #include <fcntl.h>
               #include <sys/sendfile.h>
               #include <stdlib.h>
               int main()
                      int fdin, fdout, ret;
                      struct stat *buf;
```

```
Open one existint file in read mode
       ************
      fdin = open("./src.txt", O_RDONLY);
      if (fdin < 0)
             perror("open fdin:");
             exit(1);
      /********************************
       Create or open the destination file
       *************
      fdout = open("./dst.txt", O_WRONLY | O_CREAT);
      if( fdout < 0) {
             perror("open fdout:");
            exit(1);
      ret = fstat(fd,buf);
      if(ret == -1) {
            perror("fstat:");
            exit(1);
      }
      ret = sendfile(fdout, fdin, 0, buf->st_size);
      if(ret == -1) {
            perror("sendfile:");
            exit(0);
      }
      close(fd);
      return 0;
      }
#include <stdio.h>
#include <stdlib.h>
#include <sys/stat.h>
#include <fcntl.h>
int main()
      int fd_in, fd_out, ret;
      /****************
       Open the existing named pipe. Before this write one application
       that creates named pipe using mkfifo and keep on write data on
```

fd_in = open("./src.tx", O_RDONLY);

4.

to it.

if(fd_in == -1) {

```
perror("open fd_in:");
               exit(1);
       }
       fd_out = open("./dst.txt", O_WRONLY | O_CREAT);
       if(fd_out == -1) {
               perror("open fd_out:");
               exit(1);
       }
       ret = splice(fd_in, 0, fd_out, 0, 10);
       if( ret == -1) {
               perror("splice:");
               exit(1);
       close(fd);
       return 0;
}
#include <stdio.h>
#include <sys/types.h>
#include <dirent.h>
#include <stdlib.h>
int main()
   DIR *dir;
   struct dirent *list;
   dir = opendir("../rough");
   if(dir == NULL) {
       perror("opendir:");
       exit(1);
```

5.

```
while(1) {
    list = readdir(dir);
    if(list == NULL)
    break;
    fprintf(stderr,"%s\t", list->d_name);
    fflush(stderr);
}
printf("\n");
return 0;
}
```

8.

```
#include <stdio.h>
#include <unistd.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <sys/fcntl.h>
#include <stdlib.h>

int main()
{
    int fd, ret;
    char buf[30];

    fd = open("./pr.txt", O_RDWR|O_CREAT);
    if(fd == -1) {
        perror("open:");
        exit(1);
    }
    ret = pwrite(fd,"hello world", 12,0);
```