

```
//print all system error messages using the global error message table
#include <stdio.h>
int main()
{
    int i;
    extern int sys_nerr ;
    extern char *sys_errlist [ ];
    fprintf ( stderr, "Here are the current %d error messages: \n\n",sys_nerr);
    for (i=0 ; i<sys_nerr ; ++i )
    {
        fprintf ( stderr, "%3d: %s\n", i, sys_errlist[i]); }
    }
}
```

```
//creat.c
#include <stdio.h>
#include <sys/types.h>      // defines types used by sys/stat.h
#include <sys/stat.h>      // defines S_IREAD & S_IWRITE

int main()
{
    int fd;
    fd = creat("datafile.dat", S_IREAD | S_IWRITE);
    if (fd == -1)
        printf("Error in opening datafile.dat\n");
    else
    {
        printf ( "datafile.dat opened for read/write access\n" );
        printf ( "datafile.dat is currently empty\n" );
    }
    close(fd);
    exit(0);
}
```

The following is a sample of the manifest constant for the mode argument as defined in /usr/include/sys/stat.h:

```
#define S_IRWXU 0000700      /* -rwx----- */
#define S_IREAD 0000400      /* read permission, owner */
#define S_IRUSR S_IREAD
#define S_IWRITE 0000200      /* write permission, owner */
#define S_IWUSR S_IWRITE
#define S_IXEXEC 0000100      /* execute/search permission, owner */
#define S_IXUSR S_IXEXEC
#define S_IRWXG 0000070      /* ---rwx--- */
#define S_IRGRP 0000040      /* read permission, group */
#define S_IWGRP 0000020      /* write */
#define S_IXGRP 0000010      /* execute/search " " */
```

```

printf("\nbt\t wt\t it\n");
for(i=0;i<n;i++)
{
    printf("%d\t%d\t%d\n",bt[i],wt[i],tt[i]);
}

printf("aw=%f\n,at=%f\n",aw,at);

getch();
}

```

INPUT:

enter no of processes

3

enter burst time

12

8

20

OUTPUT:

bt	wt	tt
12	8	20
8	0	8
20	20	40

aw=9.33

at=22.64