## 6. Print the type of file where file name accepted through Command Line

```c
/* Print the type of file where file name accepted through
Command Line */
#include "apue.3e/include/apue.h"
int main(int argc, char *argv[])
{
    int i;
    struct stat buf;
    char *ptr;
    for (i = 1; i < argc; i++)
    {
        printf("%s: ", argv[i]);
        if (lstat(argv[i], &buf) < 0)
        {
            //err_ret("lstat error");
            continue;
        }
        if (S_ISREG(buf.st_mode))
            ptr = "regular";
        else if (S_ISDIR(buf.st_mode))
            ptr = "directory";
        else if (S_ISCHR(buf.st_mode))
            ptr = "character special";
        else if (S_ISBLK(buf.st_mode))
            ptr = "block special";
        else if (S_ISFIFO(buf.st_mode))
            ptr = "fifo";
        else if (S_ISLNK(buf.st_mode))
            ptr = "symbolic link";
        else if (S_ISSOCK(buf.st_mode))
            ptr = "socket";
        else
            ptr = "** unknown mode **";
        printf("%s\n", ptr);
    }
    exit(0);
}

/*
shubham@shubham:~/Documents/C Programs$ gcc 6filetype.c -o
test
```

```
shubham@shubham:~/Documents/C Programs$ ./test /etc/passwd
/etc /dev/log /dev/tty \
> /var/lib/oprofile/opd_pipe /dev/sr0 /dev/cdrom
/etc/passwd: regular
/etc: directory
/dev/log: symbolic link
/dev/tty: character special
/var/lib/oprofile/opd_pipe: /dev/sr0: block special
/dev/cdrom: symbolic link
*/
```