```cpp
#include<iostream>
#include<sys/stat.h>
#include<fcntl.h>
#include<time.h>
using namespace std;

class inode_info
{
        struct stat s;
        char str[100];
public:
        void enter_file()
        {       cout<<"Enter file path"<<endl;
                cin>>str;                       }
        void info()
        {       int fd=open(str,O_RDONLY);
                int info=fstat(fd,&s);          }
        void display()
        {       cout<<"Inode details of given file:"<<endl;
                cout<<"Device_ID              : "<<s.st_dev<<endl;
                cout<<"inode no.              : "<<s.st_ino<<endl;
                cout<<"Mode                   : "<<s.st_mode<<endl;
                cout<<"No.of links            : "<<s.st_nlink<<endl;
                cout<<"Blocks size for filesystem: "<<s.st_blksize<<endl;
                cout<<"User ID                : "<<s.st_uid<<endl;
                cout<<"Group ID               : "<<s.st_gid<<endl;
                cout<<"Total Size in bytes    : "<<s.st_size<<endl;
                cout<<"No. of blocks allocated : "<<s.st_blocks<<endl;
                cout<<"last access            : "<<ctime(&s.st_atime)<<endl;
                cout<<"last data modification : "<<ctime(&s.st_mtime)<<endl;
                cout<<"last status change     : "<<ctime(&s.st_ctime)<<endl;
        }
};
int main()
{       inode_info i;
        i.enter_file();
        i.info();
        i.display();
        return 0;
}
```

```
[te@dbsl8 ~]$ stat newtest.cpp
  File: 'newtest.cpp'
  Size: 1048      Blocks: 8       IO Block: 4096   regular file
Device: fd02h/64770d   Inode: 14029576    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1001/    te)  Gid: ( 1001/    te)
Context: unconfined_u:object_r:user_home_t:s0
Access: 2016-07-27 12:40:20.673861593 +0530
Modify: 2016-07-27 12:39:47.141862194 +0530
```

Change: 2016-07-27 12:39:47.213862193 +0530
 Birth: -

[te@dbsl8 ~]$ g++ newtest.cpp
[te@dbsl8 ~]$ ./a.out
Enter file path
/home/te/newtest.cpp
Inode details of given file:
Device_ID   : 64770
inode no.   : 14038341
Mode   : 33204
No.of links   : 1
Blocks size for filesystem: 4096
User ID   : 1001
Group ID   : 1001
Total Size in bytes : 1049
No. of blocks allocated : 8
last access   : Wed Jul 27 12:43:58 2016
last data modification   : Wed Jul 27 12:43:53 2016
last status change   : Wed Jul 27 12:43:54 2016