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| Write an applica   |
| Requirement<br>Tag |
| FSTR/01            |
| FSTR/02            |
| FSTR/03            |

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tion in C++ to read a file name as command line argument and to pr  
domain names.Perform the specified operations:

## Requirement Description

Open file, read each line containing email id and display. Handle errors if any.

Extract username, host and domain name from all valid email id's . (Consider only domain names as .com or .edu as valid domains)

Display valid email id's

```
chaithra@INLEN6239008904:~$ vi email.cpp
chaithra@INLEN6239008904:~$ g++ email.cpp -o main
chaithra@INLEN6239008904:~$ ./main
Enter email IDs
username:
chaithranjaly.vijaykumar
domainname:
.com
hostname:
@gmail.com
valid email Id is: chaithranjaly.vijaykumar@gmail.com.com
username: chaithranjaly.vijaykumar
hostname: @gmail.com
domainname: .com
chaithra@INLEN6239008904:~$
```

mv Move Delete Info

chaithra@INLEN6239008904: ~

```
#include<iostream>
using namespace std;
int main()
{
    string username;
    string hostname;
    string domainname;

    cout<<"Enter email IDs"<<endl;
    cout<<"username:"<<endl;
    cin>>username;
    cout<<"domainname:"<<endl;
    cin>>domainname;
    cout<<"hostname:"<<endl;
    cin>>hostname;

    try {
        if(domainname==" .com" || domainname==" .edu")
        {
            cout<<"valid email Id is: "<<username<<hostname<<endl;

            cout<<"username: "<<username<<endl;
            cout<<"hostname: "<<hostname<<endl;
            cout<<"domainname: "<<domainname<<endl;
        }
        else
        {
            throw domainname;
        }
    }
    catch(string domainname)
    {
        cout<<"Invalid email Id"<<endl;
    }

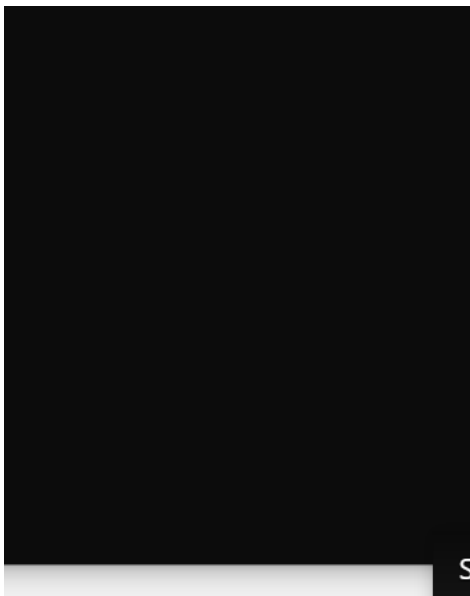
    return 0;
}
```

process and extract the user, host and

## Comments

Hint:

1. For invalid domain names or for missing fields, display error message accordingly and ignore entry.
2. For valid entry, use a structure or class with username, host and domain name members. Create an object and initialize with extracted email detail.



```
tname<<domainname<<endl;
```